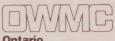
Final report

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SITE ASSESSMENT
PHASE 4B:
MUNICIPAL FINANCIAL IMPACT

FUTURE URBAN RESERRCH



CA 20N WMI -1987 M72

## SITE ASSESSMENT PHASE 4B: MUNICIPAL FINANCIAL IMPACT



Prepared for
The Ontario Waste Management Corporation

Submitted By

Future Urban Research

October, 1987

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TORONTO, ONTARIO

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(416) 363-3499

John Zangari, M.A.

October 16, 1987

Mr. J. Micak, Project Manager Environmental Projects Ontario Waste Management Corporation 11th Floor 2 Bloor Street West Toronto, Ontario M4W 3E2

Dear Mr. Micak:

I am pleased to submit the report, <u>Site Assessment</u>, <u>Phase 4B: Municipal Finance Impact</u> providing a detailed examination of the proposed OWMC waste treatment facility in West Lincoln.

This report presents a municipal finance review of the Township of West Lincoln and the Regional Municipality of Niagara. This study examines the possible financial impacts that may occur in the candidate municipalities and provides mitigation and monitoring recommendations.

I appreciate the opportunity to undertake this study and hope that it assists in clarifying the financial aspects of the project.

Yours truly,

J.P. Zangari

Future Urban Research

JPZ:ys Encl.

cc B.J. Sakauye Environmental Planner



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#### EXECUTIVE

#### SUMMARY

#### 1.0 PURPOSE

The purpose of this report is to examine the possible impacts that Ontario Waste Management Corporation's proposed industrial and hazardous waste management facility in West Lincoln may have on the financial structure of the affected municipalities. This report, therefore, presents an evaluation of the potential cost, revenue and ultimate property tax impacts on both the Township of West Lincoln and the Region of Niagara. Mitigation is also proposed to minimize negative impacts and a monitoring programme is identified to quantify impacts as they actually occur.

#### 2.0 SCOPE

From a municipal finance point of view there are two affected municipalities: the Township of West Lincoln and the Regional Municipality of Niagara. When Niagara Region and its constituent area municipalities were established, areas of jurisdiction were divided in a manner that do not overlap. Therefore, both levels of government potentially can experience direct impacts resulting from the OWMC facility. This report also comments on the school

i

boards operating within West Lincoln since 55% of the property taxes paid by the rate payers of West Lincoln go towards education.

#### 3.0 DATA USED

The data used to prepare this base description were taken from the financial statements and financial information returns of both the Township and the Region. In addition, supporting documents were drawn upon such as: The Financial and Economic Survey published by the Region of Niagara; cost apportionment schedules provided by the Ministry of Municipal Affairs and the Ministry of Revenue; as well as enrollment and financial statistics from the Lincoln County Public School Board and the Lincoln County Roman Catholic School Board. The base year for analysis purposes is 1984. This report also comments upon the trends occurring in the financial activity of the affected municipalities. To do this, historical summaries were prepared for the five year period from 1980 through 1984.

#### 4.0 PREMISES/POSTULATES

#### 4.1 Property Assessment

For the analysis, exempt property assessment for the OWMC facility is based on design costs related to a 150,000 tonne capacity plant

(Site Assessment, Phase 4B: Facility Characteristics, 1987, Monenco Limited.) To relate the realty construction estimates of the facility to the local assessment base in West Lincoln, the analysis employed the equalization factors that are provided by the Ministry of Revenue, who concurred with the approach.

Business assessment is expected to be 60% of realty assessment.

#### 4.2 Households

Included in the estimates for induced residential assessment growth is a provision for new households in West Lincoln and Niagara Region. The derivation of this estimate and a full description of the induced growth effects is contained in the report <u>Site Assessment</u>, <u>Phase 4B</u>: <u>Economic Impacts</u>, 1987, prepared by Morehouse Economic Planning Consultants.

#### 4.3 Municipal Expenditures and Revenue

Since discussions with municipal officials were held, direct cost estimates have been used wherever possible. In addition to this, it is assumed that operating expenditures vary with the number of households as well as the amount of any induced commercial assessment in the Township. It is also assumed that the current Provincial grant programme will be in place when the OWMC facility

is constructed and operating. Any future changes to the grant formulae should be examined as part of the monitoring programme.

The current level of service offered by the affected municipalities is assumed to remain the same when the effects resulting from the OWMC facility are being experienced. To identify the cost impacts, a bench mark is needed to gauge the changes. This assumption is made to more clearly isolate the effects of the proposed facility.

The analysis is also conducted in real dollar terms rather than inflated dollars in the future. The results of the analysis are therefore expressed in 1984 dollars which represents the base year for the study. Moreover, future changes in the Provincial or National economies are not considered in the analysis.

#### 5.0 METHOD OF ANALYSIS

To undertake the analysis, a computer model was developed which simulates the municipal finance structure of both the Township of West Lincoln and the Region of Niagara. This model includes several impact components: households and property assessment, operating and capital expenditures, non-tax revenues and capital financing sources, the allocation mechanism for apportioning the Region levy, the derivation of the OWMC payments in lieu of taxes and a property tax summary. With the model, financial impacts at

various stages of operation can be determined.

To carry out a thorough review, the consultant met senior staff of the Township and the Region to discuss the financial implications that may result from OWMC's presence. Information obtained in these meetings has been incorporated in the analysis.

#### 6.0 MAIN FINDINGS

#### 6.1 Property Assessment

The establishment of a 150,000 tonne/annum facility will add \$13.6 million in property and business assessment to the Township's 1984 tax base of \$15.7 million. This represents an 84% increase in the property tax base and will bring the Township's total assessment to \$29.3 million. This is shown in chapter 3 of this report.

The establishment of the OWMC facility will also induce a further indirect growth in property assessment of \$326,600 in West Lincoln. This includes additions to the tax base for commercial and business assessment (\$292,500) and additional residential assessment (\$82,100). The farm assessment that the OWMC facility will replace (\$23,000) and decreases in residential assessment resulting from possible property value reductions (\$25,000) are also incorporated in the above figure. In 1984, the commercial sector amounted to 19% of the Township's total tax base. The OWMC assessment and its related growth effects may increase this sector

to 54% of the total.

The establishment of the OWMC facility has a substantially smaller effect on the entire Region of Niagara. The property assessment from all direct and induced growth aspects adds less than 2% to the Region's existing tax base. When expressed in terms of market value, the establishment of the OWMC facility effectively adds \$130.8 million to the Region's 1984 base of \$7.7 billion.

#### 6.2 IMPACT ON NIAGARA REGION

#### 6.2.1 Operating Cost

Annual Regional operating expenditures are forecast to increase by \$147,500 on a 1984 level for total expenses of \$110 million. This includes General Government, Police, Roads, Emergency Measures, Water and Sewer Distribution, Health, Social Services, and Planning and Development. The expenditure estimates for each department are based on a growth component, because of the new residents and businesses moving into the Region, as well as the direct annual service requirements of the OWMC facility.

#### 6.2.2 Capital Cost

In preparation for the OWMC facility, additional up front capital expenditures for the Region are expected to total \$100,000 before

the OWMC facility proceeds. This represents a provision for further planning requirements and a contingency for a possible Region wide health survey. In addition to these capital expenditures, it is expected that up front costs of \$300,000 for professional fees for technical reviews may be incurred, but these will be offset by OWMC.

#### 6.2.3 Revenue

The Region's share of the OWMC Payment in Lieu of Tax (PIL) may exceed \$1.0 million annually. Other induced annual revenue impacts result in a \$44,700 increase in non-tax revenues to the Region. Some revenues increase because of the added households which affect the Provincial unconditional grants and the Region's wholesale water and sewer rates. Other revenues increase because of the extra costs. The Provincial conditional grants are designed to offset expenditures and, therefore, increase as expenditures rise.

#### 6.3 IMPACT ON WEST LINCOLN

#### 6.3.1 Operating Cost

Due to the relatively low number of new households expected, operating expenditures are only forecast to increase by \$116,800 on a 1984 level of expenditures of \$2.3 million. Included in this additional cost is a provision for a staff member to monitor

possible future impacts; other general government involvement in OWMC related matters; extra winter road maintenance to allow for the movement of employee traffic (construction and operations) should they not use Provincial or Regional roads for their home to work trips; and an allotment for possible increased liability insurance premiums. These annual expenditures are also based on a growth component because of the new residents and businesses moving into the Township.

#### 6.3.2 Capital Cost

In preparation for the OWMC facility, additional up front capital expenditures in West Lincoln are expected to total \$200,000 before the OWMC facility proceeds. This includes a provision for emergency response and roads maintenance equipment, added planning and development impacts and a contingency which may incorporate any recreational and cultural (museums and libraries) costs resulting from the new households. Also, up front costs of \$300,000 for technical reviews will be offset by OWMC.

#### 6.3.3 Revenue

The Township's share of the payments in lieu of taxes that will be made annually by OWMC are forecasted to approach \$772,000. These payments are determined similar to property taxes and will be levied on OWMC each year by the Township.

Other induced revenue impacts for the Township result in a \$63,000 reduction to non-tax receipts. Two significant grant reductions relate to the Township's road subsidies from the Ministry of Transportation and Communications and the Resource Equalization Grant paid by the Ministry of Municipal Affairs. These subsidies allow for property assessment growth and the large amount of OWMC related assessment may cause a reduction in the assistance that will be paid to West Lincoln.

#### 6.3.4 West Lincoln's Share of the Regional Levy

To determine the appropriate levy share for each area municipality, Regional costs are divided according to the relative amounts of assessment in each municipality in Niagara. Due to the substantial increase to West Lincoln's property assessment base, the Township's share of the Regional levy increases substantially. The following itemizes this impact.

- a) West Lincoln's share of the Region levy can potentially increase from 2.4%, or \$997,000, to 5.4%, or \$2.3 million. This represents an increase of \$1.3 million or 130%.
- b) The Region's share of OWMC payments in lieu of taxes may total \$1,050,000 only. This leaves a potential difference of about \$245,000 to be paid by the existing

- community through their property taxes.
- c) If there were no increases in Regional expenditures the amount paid by all of the other municipalities in Niagara Region would reduce by the amount of the increase in the share paid by West Lincoln, ie. \$1.3 million. Since net Regional expenditures after revenue changes are affected by the OWMC facility the amount gained by the other municipalities is lessened by \$103,000. The amount saved by the other municipalities therefore approaches \$1.2 million.

#### 6.4 BOARDS OF EDUCATION

Both the Lincoln County School Board and the Lincoln County Roman Catholic School Board indicated that the low number of new households forecasted would not cause significantly large added costs to accommodate the increased number of students. The potential pupil enrollment from this small number of families could be absorbed into the current schools, assuming that the distribution of children's ages, and therefore grade levels, was reasonably dispersed. This is particularly true under the worst case out-migration expectations already described.

The proposed OWMC facility will not have an impact on the school boards' cost sharing procedures as does the Regional apportionment system. Similar to Niagara Region, the school

boards distribute their costs on the basis of assessment to determine how much each municipality is levied. Unlike the Region, however, the education cost sharing procedure does not include the assessment associated with government facilities. Education levies on West Lincoln, therefore, will remain at their present levels after the OWMC facility is constructed.

#### 6.5 PROPERTY TAX IMPACT

The establishment of the OWMC industrial waste site in West Lincoln may increase property taxes by 5.6%. This represents a \$24.80 increase on average taxes of \$442.00 now paid to the Township and the Region. This increase would occur in addition to inflation or any other changes in budgetary spending that West Lincoln may consider necessary.

The principal reason for this tax impact is that, the increase in West Lincoln's share of the Regional levy is not offset by the Region's share of OWMC payments in lieu of taxes. Moreover, while the Township's share of OWMC payments in lieu of taxes exceeds cost increases, it is not offset. This is demonstrated on Table A-1. This shows the average annual impact of the facility after aggregating all elements over the 25 to 30 year life of the facility.

Table A-1

#### TOTAL FINANCIAL IMPACT ON WEST LINCOLN

	West <u>Lincoln</u>	Township Share of Region Levy	<u>Total</u>
Net Expenditure/Apportionment Increase	t \$679,800	\$1,296,900	\$1,976,700
Less: OWMC PIL	(771,800)	(1,050,000)	(1,821,800)
Net Cost (Benefit)	\$ (92,000)	\$ 246,900	\$ 154,900

#### 6.6 STAGING AND TIMING OF IMPACTS

Throughout operations, the OWMC payments in lieu of taxes may vary between \$1.5 to \$1.8 million per year. Once the initial up front costs have been incurred, the Township may remain with an excess of PIL receipts of \$128,000 after West Lincoln's share of the Regional levy is paid. This can result in an 8.3% decrease in the tax levy on the local rate payers. While this is certainly beneficial, the difficulty rests with the Provincial formula for sharing the PIL between the Township and the Region. In all stages examined, the Regional share of the PIL may not be large enough to fund the increase in the levy on West Lincoln. As a result, paying this cost from the total PIL erodes that share that would normally accrue to the Township. If West Lincoln's share of

the Regional levy were offset, the Township would receive a net benefit of \$363,000 per year instead of \$128,000, after all other OWMC related operating costs are paid. This money would then be available to use for other municipal purposes.

#### 6.7 SENSITIVITY ANALYSIS

The most significant variable in the municipal financial analysis is the valuation of the property assessment associated with the OWMC facility itself. Since this is based on estimates of the cost of land and buildings, the net financial impact was tested using a range from minus 20% of the values used in the base impact scenario to plus 20%. While the base case forecasts the amount of the PIL to total \$1.8 million, this could range from \$1.5 million to \$2.1 million, depending on the final construction cost of the facility. Moreover, the tax increase on the rate payers of West Lincoln could vary from 2.6% to 9.1% as compared to the 5.6% forecasted in the base impact scenario.

All other variables have a very minor effect on the municipal finance analysis. The number of households in either West Lincoln or the Region has virtually no effect on PIL's or the tax impact. Similarly, various levels of operating expenses, induced commercial or industrial assessment or more severe decreases in property values have very little effect on the analysis.

#### 7.0 FINANCIAL MITIGATION

#### 7.1 Payments in Lieu of Taxes

Fundamental to a suggested mitigation approach is the payments in lieu of taxes that the OWMC will remit to West Lincoln. Not all OWMC related costs to the Township or the Region need be compensated separately. Some represent expenses that would normally be paid for out of the municipality's operating revenue. Since the amount of the annual payments in lieu of taxes is substantial certain cost impacts will be automatically defrayed. Only OWMC related capital costs need be funded separately since these are not operational items.

#### 7.2 Apportionment of the Regional Levy

There are two strategies that could be used to overcome the deficit caused by the increase in West Lincoln's share of the Regional levy, but both would require the concurrence of the Ministry of Municipal Affairs and the Township of West Lincoln.

 Make use of a Regional mill rate, rather than the apportionment procedure. In this case the Ministry of Municipal Affairs may also require a complete reassessment of all property in Niagara Region. 2. Revise the payment in lieu of tax formula so that more money is remitted to West Lincoln.

#### 7.3 OWMC Payments

Given the above suggestions for mitigation, the following summarizes the payments that could potentially be made by OWMC.

#### OWMC Payments

Mitigation Paid Once West Lincoln Niagara region	\$200,000 100,000
Building Permits	\$300,000 \$600,000
Total Up Front	\$900,000
Payments In Lieu of Tax Paid Annually	ζ
West Lincoln	\$ 775,000
Niagara Region	1,050,000
Revised Formula	250,000
Total Annual	\$2,075,000

As already described, once operations commence, the Township may receive a net benefit of \$128,000 per year if the shortfall resulting from West Lincoln's share of the Regional levy is not mitigated. If this deficit balance were offset West Lincoln would receive excess funds of \$363,000 per year. This compensation programme, therefore, could reduce property taxes by almost 20% or make funds available to use for other Township purposes.

#### 8.0 MONITORING

The monitoring programme is intended to identify, isolate and quantify impacts arising from the establishment of the OWMC facility as they actually occur. It is an on-going verification of the impact analyses and also monitoring will measure the effectiveness of mitigation. As impacts are seen to occur, corrective action can be taken if warranted. The monitoring programme is also designed so that the municipal finance computer model can incorporate the monitoring data. In this way, the model can be periodically up-dated so that further impact forecasts can be based on the most current information.

It is intended that monitoring be conducted annually after the municipal financial statements are available (probably by mid to late spring). For the most part, this annual monitoring is a straight forward exercise, however, some items will occasionally require a more detailed analysis. It is suggested that these be conducted at least every four to five years to ensure that all financial activity is adequately reviewed. This is not to say that specific analyses may not be conducted sooner if necessary. Whenever a data item behaves in a manner that was either not anticipated, or wholly explained, a full analysis may be warranted.

#### 9.0 CONCLUSIONS AND RECOMMENDATIONS

#### 9.1 Payments in Lieu of Taxes

The payments in lieu of taxes will automatically defray operating costs specifically related to OWMC. For West Lincoln, these include: the environmental project co-ordinator during initial stages of the project; other general government involvement in OWMC related matters during operations and monitoring; additional road maintenance to provide for OWMC employee traffic on Township roads; and increased liability insurance premiums. For Niagara Region, these costs include: a possible staff addition to the Health Unit to undertake medical monitoring; additional road maintenance on Region Road #24; and a provision for increased liability insurance premiums.

#### 9.2 Capital Costs Mitigated Separately

Up front capital expenditures resulting from the requirements of the OWMC facility can be mitigated separately. Capital expenditures in West Lincoln are expected to total \$200,000 before the OWMC facility proceeds. This includes \$100,000 for fire and roads maintenance equipment; \$50,000 representing only the new household requirements for recreational and cultural facilities; and \$50,000 for additional planning requirements. Up front capital expenditures resulting from the presence of the OWMC plant

for Niagara Region are expected to total \$100,000. This represents site related planning requirements and a provision for a possible Region wide health survey.

#### 9.3 Apportionment of the Regional Levy

To allow for a large enough Regional share of the PIL to fully fund the impact of apportionment on West Lincoln it is suggested that the method for determining the payment in lieu of tax be revised. This revision would be based on the current derivation of PIL's for West Lincoln's own purposes. In addition to this, the Regional PIL would be determined according to the amount of the upper tier levy that is attributed solely to the OWMC facility.

While two options are presented in the text, this option is being recommended because it is less disruptive to the other municipalities in the Region and it places funds directly with West Lincoln.

#### 9.4 Building Permit Fees

It is suggested that the amount of building permit fees paid by the OWMC not be considered as a compensation item. If West Lincoln obtains the necessary expertise to carry out inspections through an outside agency then the OWMC may consider mitigating this cost. If the OWMC arranges the inspections and protects West Lincoln's liability with respect to building codes, there may not be any cost to the Township to mitigate. Under West Lincoln's current bylaw, the building permit fee could approach \$600,000, which in the latter example, would represent a wind fall to the Township.

#### 9.5 Monitoring

It is also recommended that a monitoring programme be established. This programme will assist in identifying and quantifying any demonstrable financial impacts on West Lincoln and Niagara Region as they occur. In this way, the effectiveness of the mitigation measures can be addressed and the appropriate action taken. The monitoring programme should be conducted in co-operation with the Township and the Region. Monitoring should be conducted annually and begin with the construction of the facility. Periodically, the monitoring programme should also include discussions with municipal officials, provincial ministries and school boards. A complete list of the data to be monitored, level of detail and frequency is presented in the text of this report.



# CHAPTER 1 INTRODUCTION, METHOD AND ASSUMPTIONS

#### 1.1 PURPOSE OF THE REPORT

This report documents the <u>Site Assessment</u>. Phase 4B: <u>Municipal Finance Impact</u>, 1987, carried out as part of the Ontario Waste Management Corporation's Facilities Development Process. Phase 4B involves detailed assessments of the preferred site and surrounding area based on several disciplines, including Municipal Finance.

The specific objectives of Phase 4B are to:

- Define the existing environmental conditions of the preferred siting option.
- Predict and assess potential risks and impacts that may be associated with the proposed facility design, operations and

decommissioning.

- 3. Identify and develop appropriate mitigative measures to minimize the potential risks and impacts associated with the proposed facility design, operations and decommissioning.
- 4. Interpret the residual impacts after mitigation.
- 5. Identify and develop monitoring programmes that will be implemented to assess the effectiveness of the design, operations in minimizing risks and impacts.
- 6. Prepare documentation to meet the requirements of Ontario's Environmental Assessment Act.

This study presents an evaluation of the potential cost, revenue and property tax impacts on both the Township of West Lincoln and the Regional Municipality of Niagara. Accordingly, this report:

Documents the existing state of financial conditions in the two municipalities before the construction of the OWMC facility begins, and

Documents the impacts that Municipal Finance may have on the area associated with development, operation and closure of the proposed facility, together with recommended mitigative

measures and a monitoring programme. Figure 1-1 show the Facilities Development Process and Figure 1-2 locates the preferred site.

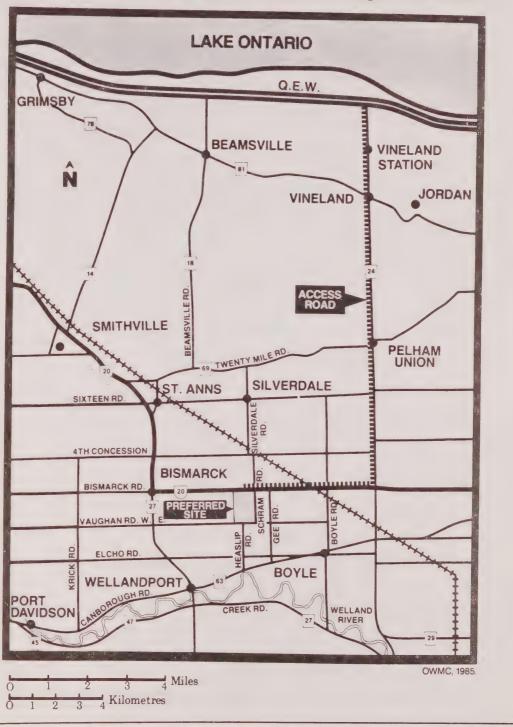
#### 1.2 METHOD

#### 1.2.1 STUDY AREA

From a municipal finance point of view there are two municipalities that may be impacted upon, the Township of West Lincoln and the Regional Municipality of Niagara. When Niagara Region and West Lincoln were established areas of jurisdiction were divided in a manner that do not overlap. For example, local roads are the responsibility of the Township, while major arterial routes fall under the jurisdiction of the Region. Therefore, both levels of government potentially can experience impacts resulting from the OWMC facility. Moreover, because of the cost sharing relationship between the two municipalities, financial impacts on West Lincoln can also be caused indirectly. It is the purpose of the municipal financial component of the analysis to capture any impacts in this area as well.

FIGURE 1-1 Facilities Development Process

Township of West Lincoln, Regional Municipality of Niagara. Local Detail.





In addition to the impact on the affected municipalities, this report also comments on the school boards operating within West Lincoln. This is also included for two reasons:

First, 55% of the property taxes paid by the rate payers of West Lincoln are for education purposes. While the OWMC facility may not have a direct impact on the school boards' cost sharing, there may be indirect effects through higher enrollments via increased population either because of construction and operation of the facility or by induced growth effects. Impacts of this nature may increase tax requirements depending on the level of Provincial support provided to the school boards.

Second, similar to the municipalities involved, the establishment of a base description of the school boards financial profile will assist in a future monitoring programme.

### 1.2.2 DATA USED IN THE ANALYSIS

The data used to prepare this base description were taken from the 1984 financial statements and financial information returns of both the Township and the Region. In addition, supporting documents were drawn upon such as:

- The 1984 Financial and Economic Survey published by the Region of Niagara,
- Cost apportionment schedules provided by the Ministry of

Municipal Affairs and the Ministry of Revenue,

- Enrollment and financial statistics from the Lincoln County
Public School Board and the Lincoln County Roman Catholic
School Board.

For analysis purposes, 1984 represents the base year for all impact comparisons. Chapter 2 of this report also comments upon trends occurring in the financial activity for the municipalities. To do this, historical summaries were prepared for the five year period from 1980 through 1984.

#### 1.2.3 MUNICIPAL COMPARISON

To give the municipal financial review a frame of reference, the report also compares some basic financial statistics for West Lincoln to those of its neighbouring municipalities within the Region of Niagara. So that the Township is not contrasted with the highly urbanized centers of St. Catharines or Niagara Falls, the selected municipalities were limited to those with a population of less than 20,000. No further selection criteria were used so as not to bias the comparison. A similar comparison was not undertaken for the Region because the government structure upper tier levels differ more widely than lower levels. Consequently a realignment of these structures can bias analyses. Moreover, since Niagara Region levies its member on municipalities, the ultimate tax burden is embodied in the tax

summary for West Lincoln.

# 1.2.4 THE IMPACT ANALYSIS

To undertake the impact analysis, a computer model was developed which simulates the municipal finance structure of both the Township of West Lincoln and the Region of Niagara. This model includes several impact components:

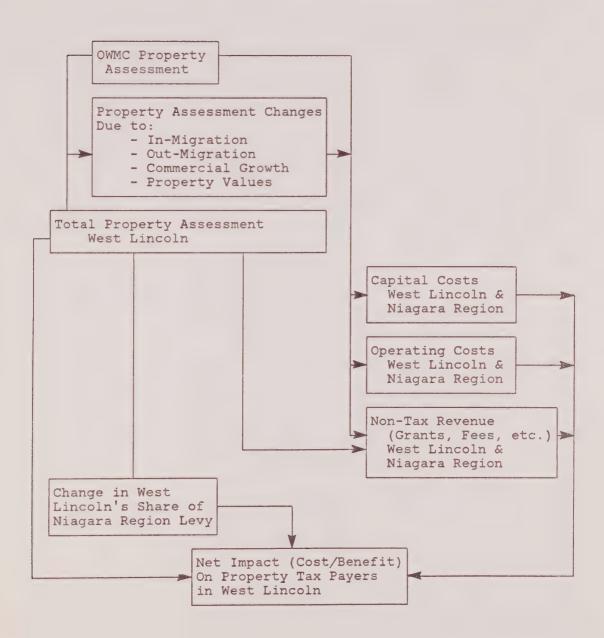
- households and property assessment,
- operating and capital expenditures,
- non-tax revenues and capital financing sources,
- the allocation mechanism for apportioning the Region levy,
- the derivation of possible OWMC payments in lieu of taxes and
- a summary property tax impact forecast.

With the model, financial impacts at various stages of operation can be determined.

#### 1.2.5 INTERVIEWS

To carry out a thorough review, the consultant also met senior staff of the Region and the Township to discuss the financial implications that may result from OWMC's presence. The information obtained during these discussions has been incorporated in the analysis.

FIGURE 1-3
Major Components of the Analysis



#### 1.3 ASSUMPTIONS

#### 1.3.1 PROPERTY ASSESSMENT

For the purposes of the analysis, the derivation of exempt property assessment for the OWMC facility is based on design costs related to a 150,000 tonne/annum capacity plant. Excerpts from the report <u>Site Assessment</u>, <u>Phase 4B: Facility Characterisitcs</u>, 1987, Monenco Limited are shown in Appendix B. To relate the realty construction estimates of the facility to the local property assessment base in West Lincoln, which is based on 1940 construction valuations, the analysis employed the equalization factors that are provided by the Ministry of Revenue, who concurred with the approach as a first approximation.

Business assessment is expected to be 60% of realty assessment. This is the level accorded the Tricil facility in Sarnia. While definitions in the <u>Assessment Act</u> may be subject to multiple interpretation, the Ministry of Revenue has confirmed the the categorization of the OWMC facility as industrial/manufacturing at the 60% level. Other induced business growth is expected to be taxed at the 30% commercial rate.

#### 1.3.2 HOUSEHOLDS

Included in the estimates for induced residential assessment growth is a provision for new households in West Lincoln and

Niagara Region. The derivation of this estimate and a full description of the induced growth effects, including the commercial and industrial sectors, is contained in the report <u>Site Assessment Phase 4B: Economic Impacts</u>, 1987, prepared by Morehouse Economic Planning Consultants. The municipal finance analysis only is concerned with new households moving into the municipalities and not with the total number of local residents, now living in the Township, who may work at the OWMC facility. This latter group already pays property taxes and demands and makes use of the services now provided by the Township.

### 1.3.3 MUNICIPAL EXPENDITURES AND REVENUE

Since discussions with municipal officials were held, direct cost estimates have been used wherever possible. In addition to this, it is assumed that operating expenditures vary directly with the number of households as well as the amount of any induced commercial or industrial assessment in the Township.

The Province represents a substantial funding source for the municipalities and the grant structure that existed in 1984 is used for forecasting purposes. Implicitly it is assumed that the current Provincial grant programme will be in the same form when the OWMC facility is constructed and operating. This assumption is unrealistic in that some grants may probably change during the life of the OWMC facility. It is impossible to determine how or

when the Province may change its grants over such a long time horizon and any anticipation would probably be wrong. Any future changes to grant formulae, therefore, should be examined separately as part of the monitoring programme.

It is also assumed that the current level of service offered by the affected municipalities will remain the same when the effects resulting from the OWMC facility are being experienced. To identify the cost impacts that are the result of the OWMC facility a bench mark is needed to gauge the changes. The quality, or level of service offered by the municipalities can change independently of other events because it is the result of policy decisions. This assumption is made to more clearly isolate the effects of the proposed facility. This is not to say that tastes and expectations will change as new OWMC related residents move into the area. This latter type of change, however, has been taken into consideration.

The impact analysis is carried out in the absence of OWMC mitigation to obtain a complete statement of financial effects. Mitigation is discussed and quantified separately. The analysis is also conducted in real dollar terms rather than inflated dollars in the future. The results of the analysis are therefore expressed in 1984 dollars since that is the base year for the study. Moreover, any changes in the Provincial or National

TABLE 1-1

# Rationale for Assumptions Employed

	Assumption		Rationale for Assumption
0	approximately 20 new households will be generated in the Township of West Lincoln	0	derived from Phase 4B Economic Impact Assessment
0	approximately 55 new households will be generated in the Region of Niagara	0	as above
0	new induced commercial growth is assumed to be charged business tax at a rate of 30% of its property value		induced commercial growth expected to be in the small retail and service sectors 30% is the business tax rate stipulated in the Assessment Act
0	the OWMC facility is assumed to be charged business tax at a rate of 60% of its property value	0	this is the level that the Ministry of Revenue determined to be appropriate for the Tricil facility in Sarnia
0	provincial grant program will be in the same form when the OWMC facility is constructed and operating	О	this assumption is unrealistic in that Provincial grant formulas may change by the time the facility is constructed and/or operating; it is impossible, however, to determine how or when the Province may change its grants
0	the current level of services offered in the community will remain the same with the establishment of the OWMC facility	0	this assumption is made to isolate the effects of the proposed facility on community services
0	the municipal finance analysis employs real dollars rather than inflated dollars in the future; any changes in the provincial or national economies are not considered in the analysis	0	the inclusion of an inflation rate can be misleading by giving the appearance of excessively large figures

economies are not considered. Since these cause changes to financial items such as debenture interest rates, they can be examined separately through the monitoring programme. The foregoing assumptions are summarized on Table 1-1.

# 1.3.4 SENSITIVITY ANALYSIS

The purpose of the sensitivity analysis is to test the reliability of the conclusions. By evaluating the most likely ranges for the underlying variables, different levels for the net property tax impact can be obtained. By comparing these results, the analysis can determine the significance of the variables as well as the overall range of the possible impact values. The sensitivity tests were conducted using the municipal finance computer model developed for the impact analysis.

### 1.3.5 STAGING AND TIMING OF IMPACTS

The analysis presents a view of the overall financial impact that the establishment of the OWMC facility can potentially have on the municipalities involved and their constituent rate payers. The municipal finance evaluation also uses four distinct impact stages.

- Impacts occurring prior to the construction of the OWMC facility.

- Impacts occurring during construction
- Impacts occurring with operations at a 150,000 tonne capacity
- Impacts occurring with operations at a 300,000 tonne capacity

The phasing of the project, the staging of expenditures and the timing of the financial mechanisms involved provide a clearer picture of how the municipalities may be impacted upon. Moreover, chapter 5 presents a summary of possible impacts when the OWMC facility is closed and decommissioned.



#### CHAPTER 2

#### BASE MUNICIPAL

#### FINANCIAL PROFILE

# 2.1 FINANCIAL REVIEW OF THE TOWNSHIP OF WEST LINCOLN

This chapter of the report outlines the financial profile of the Township of West Lincoln. It includes, where possible, a five year review as well as a detailed summary for 1984 for,

- assessment and tax rates
- operating revenue and expenditures
- capital expenditures and reserve fund balances.

#### 2.1.1 POPULATION AND ASSESSMENT

Population activity, the number of households and property assessment levels in a municipality provide indications of the level of municipal services demanded by the community. This is a key element in a municipal financial review since:

- operating expenditures measure the amount of services provided
- provincial grants are determined using the demographic base
- assessment levels represent the municipality's ability to finance the costs of providing public goods and services.

As a result, a brief description of the past demographic and economic activity of West Lincoln is provided here to place the actual financial review of the Township in the context of its overall growth patterns.

Table 2-1 shows the levels of population and households in West Lincoln for the period beginning in 1980 and ending in 1984. Over this time frame the number of persons in the Township increased from 9,827 to 9,892, yielding a growth rate of only 0.7% for the five years. On the other hand, the number of households increased from 2,886 in 1980 to 2,994 in 1984. This represents a total increase for the five year period of 3.7%.

Table 2-1
TOWNSHIP OF WEST LINCOLN
POPULATION AND HOUSEHOLDS
1980 - 1984

	Pop	pulation	Но	useholds	Persons Per Household
		\$		\$	
	#	Increase	#	Increase	
1980	9,827	-	2,886	•	3.4
1981	9,865	0.4%	2,926	1.4%	3.4
1982	9,836	-0.3%	2,959	1.1%	3.3
1983	9.865	0.3%	2,971	0.4%	3.3
1984	9,892	0.3%	2,994	0.8%	3.3
1980-1984	-	0.6%	-	3.7%	

Source: Township of West Lincoln Financial Statements

This higher growth in households results from a movement to slightly smaller household sizes -- 3.4 persons per household in 1980 to 3.3 persons per household in 1984.

Table 2-2 summarizes the amounts of property assessment in West Lincoln for the same 1980 to 1984 period. During this time, assessment increased by 10.7% from \$16.2 million in 1980 to \$17.9 million in 1984. In this latter year, residential and farm property assessment amounted to 14.5 million, or 81% of total, with the remaining \$3.4 million, or 19%, representing the commercial-industrial sector (including business assessment). While the business sector is a substantially smaller component of the tax base, it has been growing much more rapidly than the residential and farm sector. From 1980 to 1984 residential and farm assessment experienced a total growth of 9.4%. Commercial, industrial and business assessment, on the other hand, grew by 17.2% during the same period. As a result, this latter sector has increased from being 17.8% of total property assessment to its present 18.8%. Within this sector, business assessment has grown the most rapidly (29.1%) and this would most probably represented the establishment of businesses in higher assessment rate categories.

#### TOWNSHIP OF WEST LINCOLN

## PROPERTY ASSESSMENT 1980 - 1984 (\$000's)

	19	280	19	781	11	82	11	783	19	784	Total
	\$	X.	5	7,	\$	%	\$	%	\$	7,	% Inc
Residential & Farm Commercial &	13,294	82.2%	13,627	81.8%	13,995	81.3%	14,304	81.1%	14,549	81.2%	9.4%
Industrial Business	725	4.5%		4.7%	2,319 898	13.5% 5.2%	929	13.6%	•	13.6% 5.2%	12.5% 29.1%
	16,180		16,651		17,212	100.0%		100.0%		100.0%	10.7%
Provincial Equali- zation Factor	7.99		7.75		7.38		7.44		7.36		
Estimated Market Value	202,757		214,575		233,225		236,962		243,451		20.1%
Percent Increase	-		5.87		8.77	;	1.67		2.7%	4	
Residential Assess- ment Per Household	5,419		5,479		5,564		5,664		5,717		

Note: Figures represent gross assessment before reduction of 15% for residential/farm property for taxation purposes.

Source: Township of West Lincoln Financial Statements

When applying the Province's equalization factors, the total value of taxable property in West Lincoln can be calculated to exceed \$244 million. (Equalization factors are provided by the Ministry of Revenue and are calculated by relating historical sales to property assessment values.) On average, residential property assessment amounted to \$5,700 per household or \$80,000 when expressed on a market value basis. This amount includes farm property and therefore should not be viewed as an average market value of a housing unit in West Lincoln.

# 2.1.2 TAX RATES

Table 2-3 presents a summary of residential and farm mill rates for the years 1980 through 1984 inclusive for Township, Regional and public school board purposes. For clarity in presentation mill rates are expressed in terms of tax amounts required for each one-thousand dollars of property assessment.

#### TOWNSHIP OF WEST LINCOLN

#### RESIDENTIAL AND FARM MILL RATES 1980-1984

	19	780	1	991	19	992	1	993	1	984	Total
	\$	%	\$	7,	\$	%	\$	%	\$	7	% Inc
Taxation Rates (Note A)											
Township	38.25	21.2%	39.12	20.8%	51.79	24.5%	51.79	23.1%	53.94	22.7%	
Region	33.83	18.8%	37.83	20.2%	45.77	21.6%	49.20	22.0%	52.97	22.3%	
Schools	108.00	60.0%	110.78	59.0%	113.94	53.9%	122.89	54.9%	130.35	54.9%	
Total	180.08	100.0%	187.73	100.0%	211.50	100.0%	223.98	100.0%	237.26	100.0%	
Annual Percent Inc	rease										
Township		-		2.3%		32.4%		0.0%		4.2%	41.0%
Region		-		11.9%		21.0%		7.5%		7.7%	56.6%
Schools		-		2.5%		2.9%		7.9%		6.1%	20.7%
Total		-		4.2%		12.7%		5.9%		6.0%	31.87

Note A) Property taxes per thousands of dollars of assessment.

Source: Township of West Lincoln Financial Statements

In 1984, the total tax rate in West Lincoln amounted to \$237.26 per one-thousand dollars of assessment. Of this, West Lincoln required \$53.94, or 22.7%. The Region of Niagara required a similar amount -- \$52.97, or 22.3% of total -- and the public school board required \$130.35, or 54.9% of total. Over the 1980 to 1984 period, tax rates for all three jurisdictions have increased by 32%. The Township of West Lincoln has experienced a total tax rate increase of 41.0% over this five year period, while the Region's tax rate rose by 56.6% and the Lincoln County School

Board component rose by 20.7%.

## 2.1.3 OPERATING REVENUE

Operating revenues in West Lincoln are principally derived from three main sources: property taxation, Provincial grants or subsidies and municipal programme revenue. Property taxation has been discussed above and will not be further elaborated upon here. Programme revenue includes user fees, permits and licenses, service charges and interest earnings and other private or public contributions.

In 1984, operating revenue in West Lincoln totalled \$2,913,000. Of this, \$1,072,000, or 36.8%, came from property taxation, while \$1,311,000, or 45.0%, represented Provincial grants and subsidies. Only 17.4%, or \$506,000, was derived from programme or other revenue sources. Although 1984 Provincial grant levels are quite substantial, they have been reducing since 1981 and 1982 when levels of 49% and 52% respectively were recorded. This reflects the Province's trend to reduce grant reliance and the Township's lower road requirements. In 1984, the Township of West Lincoln received \$315,200 in unconditional grants and nearly three times that amount, or \$907,400 in conditional grants. For the unconditional grants, the density, resource equalization and general support grants totalled \$127,400, while the revenue guarantee grant alone totalled \$177,900.

Table 2-4

# TOWNSHIP OF WEST LINCOLN

DPERATING REVENUE 1980 - 1984 (\$000's)

	1	980	19	281	1	782	1	783	1	784	Total
	\$	7	\$	7	\$	%	\$	<u>"</u>	\$	%	% Inc
Revenue											
Taxation	731	34.3%	798	32.6%	984	33.9%	1,015	36.9%	1,072	36.8%	
Payments in Lieu	16	0.8%	17	0.7%	21	0.7%	22	0.8%	24	0.8%	
Grants	776	36.4%	1,201	49.1%	1,516	52.2%	1,277	46.4%	1,311	45.0%	
Reserves & Funds	129	6.1%	·	0.0%	·	0.0%	·	0.0%	·	0.0%	
Other	480	22.5%	431	17.5%	382	13.2%	436	15.9%	506	17.4%	
Total	2,132	100.0%	2,447	100.0%	2,903	100.0%	2,750	100.0%	2,913	100.0%	
Annual Percent Increa	150										
Taxation		-		9.2%		23.3%		3.2%		5.6%	46.6%
Payments in Lieu				6.3%		23.5%		4.9%		9.1%	50.0%
Grants				54.8%		26.2%		-15.9%		2.7%	68.9%
Reserves & Funds				-100.0%		0.0%		0.0%		0.0%	-100.0%
Other		•		-10.2%		-11.4%		14.1%		16.1%	5.4%
Total				14.8%		18.5%		-5.3%		5.9%	36.6%

Source: Township of West Lincoln Financial Statements

### TOWNSHIP OF WEST LINCOLN

# OPERATING REVENUES 1984

Taxation Own Purposes Region School Boards	1,072,468 1,072,903 2,482,532	16.7% 16.7% 38.7%
Water & Sewer Billings	61,906	1.0%
SUBTOTAL	4,589,709	73.1%
Payments in Lieu of Tax	23,752	0.4%
Unconditional Grants -Per Household Density -Special Assistance -Resource Equalization -General Support -Revenue Guarantee	41,594 10,000 8,233 77,547 177,862	
SUBTOTAL	315,236	4.9%
Conditional Grants -Transportation -Recreation -Other SUBTOTAL	861,203 42,115 4,070  907,388	14.1%
Other Revenue Fees, Service Charges SUBTOTAL	198,454 284,637  483,091	3.1% 4.4%  7.5%
TOTAL REVENUE	6,419,176	100.0%

Source: Township of West Lincoln Financial Statements The conditional grants received by the Township almost exclusively relate to its road programme. Out of the \$907,000 in conditional grants, \$861,200 represent road subsidies from the Ministry of Transportation and Communications. At present West Lincoln's road subsidies are paid by the M.T.C. at the rate of 55% of approved road expenditures. The remaining conditional grants were mainly related to recreational uses (\$42,100).

Tables 2-4 and 2-5 detail the information presented above. Table 2-4 summarizes the major revenue sources for the Township for the years 1980 through 1984 and Table 2-5 provides a detailed breakdown of revenues for 1984.

# 2.1.4 OPERATING EXPENDITURES

In 1984, the Township of West Lincoln incurred expenditures totalling \$2,880,700 to provide services to its rate payers. Of this, a full 53% or \$1,534,900, related to transportation services dealing with road improvements and maintenance. After this, General Government expenditures totalled 17.3%, or \$499,100. Environment expenditures, including waterworks distribution in Smithville and sanitation comprised 9.8%, or \$282,507. Similarly, recreational services related mainly to the community centre amounted to 9.6% of total, or \$275,900.

Table 2-5
TOWNSHIP OF WEST LINCOLN

# OPERATING EXPENDITURES 1984

			Per
General Government	499,096	17.3%	167
Protection to Persons	ŕ		
and Property	172,037	6.0%	57
Transportation Services	1,534,870	53.3%	513
Environmental Services	282,507	9.8%	94
Health Services	13,305	0.5%	4
Recreation and Cultural			
Services	275,866	9.5%	92
Planning and Development	103,014	3.6%	55
			•
TOTAL	2,880,695	100.0%	982

Source: Township of West Lincoln Financial Statements

Expressed on a per household basis, the Township of West Lincoln incurred operating expenditures in 1984 that total \$982.00. This breaks down to \$513.00 per household for transportation; \$167.00 per household for general government; and \$94.00 and \$92.00 per household respectively for Environment and Recreation Services.

TOWNSHIP OF WEST LINCOLN

Table 2-7

Detailed Operating Expenditures
1984

	WAGES AND SALARIES	MATERIALS	DEBT CHARGES	TRANSFERS	TOTAL
General Government Protection to Persons	\$193,779	\$91,413	•	\$213,904	\$499,095
and Property	\$60,395	\$54,794	-	\$55,848	\$172,037
Transportation Services	\$400,339	\$1,035,397	-	\$99,134	\$1,534,870
Environmental Services	\$75,665	\$174,530	\$17,762	\$14,550	\$282,507
Health Services	-	\$7,870	-	\$5,435	\$13,305
Recreation and Cultural Services	\$71,051	\$121,928	-	\$82,887	\$275,866
Planning and Development	\$15,610	\$15,766	\$69,438	\$1,200	\$103,014
TOTAL	\$815,839	\$1,502,698	\$87,200	\$473,958 ==========	\$2,990,595

Note: General government expenses include Council, Administration, Clerk's Office and Finance Department.

Source: Township of West Lincoln Financial Statements

Tables 2-6 and 2-7 provide further details to the information presented above. Table 2-6 outlines each function expenditure on an absolute and a per household basis and Table 2-7 presents the variable and fixed components of each department expenditure.

#### 2.1.5 CAPITAL EXPENDITURES AND FINANCING

The Township of West Lincoln does not make use of extensive debt financing to carry out its capital programme. Instead, the Township makes a greater use of internal funds, the tax base and outside contributions.

For the five years from 1980 to 1984 West Lincoln's average level of capital expenditures amounted to \$460,000 per year. These projects have ranged from a low of \$200,000 in 1980 to highs of \$729,000 and \$714,000 in 1981 and 1982 respectively. These higher expenditures represented extensive road reconstructions which, similar to operating expenditures, made up a major portion of the Township's capital programme. In 1984 the Township undertook \$390,274 in capital expenditures. Costs for road related projects came to 70.0% of this, or \$273,568.

To offset these costs the Township relied most extensively on reserve funds, mainly built up from tax levies. In 1984, contributions from the Township's own funds amounted to 70.6%, or \$271,800, of the total sources of capital financing. Provincial MTC subsidies for road construction contributed only 22.8%, or \$88,000, towards the above-mentioned road construction work of \$273,568.

Table 2-9

#### TOWNSHIP OF WEST LINCOLN

#### CAPITAL EXPENDITURES 1984 EXPENDITURES . 5.1% General Government 19,746 Protection 20,892 5.4% Transportation 273,568 70.1% Environment 20,100 5.2% 25,491 Recreation 6.5% 30,477 Planning & Development 7.8% TOTAL 390,274 100.0% FINANCING Revenue Fund (Tax) 52,506 13.5% Reserves 219,291 57.0% Provincial Subsidies 88,000 22.9% 25,000 6.5% Long Term Liabilities -----TOTAL 384,797 100.0%

Source: Township of West Lincoln Financial Statements

5,477

Unfinanced Capital Outlay

The total debt of the Township as of December 31, 1984, was \$386,962 of which \$309,570 represented Tile Drainage assistance loans to farmers. The only other main debt item being carried by the Township amounted to \$70,250 for the sanitary sewerage system.

Table 2-8 summarizes capital expenditures and financing in West Lincoln for 1984.

## 2.1.6 RESERVE FUNDS

The Township of West Lincoln is in a relatively comfortable position with regards to its reserves and reserve funds. Carrying a total balance of \$825,088 in 1984, this amount represented close to 30% of total operating expenses. While it is sometimes argued that a municipality should have about 50% of operating costs in reserves, this usually depends on the nature and timing of receipts as well as the exposure to large and unforeseen expenses. This may not be the case for West Lincoln since \$383,200 can be easily accessed, representing working funds and contingencies that do not have a specific purpose or claim against them. As shown above, this gives West Lincoln the ability to avoid debt costs by using these funds to finance capital costs. Table 2-9 summarizes the reserves and reserve funds for the Township in 1984.

# TOWNSHIP OF WEST LINCOLN

# Reserves and Reserve Fund Balances 1984

Working Funds	173,231
Contingencies	209,932
	,
Ministry of the Environment	
Fund for Renewals, etc.	
sewer	48,346
Replacement of Equipment	86,978
Sick Leave	69,019
Insurance	5,526
Capital Expenditure	
general administration	31,290
library and other recreation	3,970
industrial development	93,883
Lot Levies and Subdivider Contributions	19,142
Recreational Land (The Planning Act)	14,501
Retreational Land (the Flamming HCL)	14,001
Library Current Purposes	
Ward 2 Fund	51,518
Drainage	5,000
Caistor Centre Recreation Fund	152
Election Expense	10,000
Commercial & Industrial Development	2,500
TOTAL	825,088
	*************

# 2.2 MUNICIPAL FINANCIAL COMPARISON

To give the municipal financial review of the previous chapter a frame of reference, this section of the report compares some basic financial statistics for West Lincoln to those of its neighbouring municipalities within the Region of Niagara. So that the Township is not contrasted with the highly urbanized centers of St. Catharines or Niagara Falls, the selected municipalities was limited to those with a population of less than 20,000. No further selection criteria was used so as not to bias the comparison.

The municipalities in the Region of Niagara with population less than 20,000 are shown on Table 2-10. Also shown, is the

Table 2-10
MUNICIPALITIES WITH POPULATION LESS THAN 20,000

			Persons Per
	Population	Households	Household
West Lincoln	9,836	2,971	3.3
Wainfleet	5,883	2,682	2.2
Thorold	16,086	5,631	2.9
Grimsby	16,719	5,645	3.0
Lincoln	14,404	4,888	2.9
Niagara-on-the-Lake	12,359	4,600	2.7
Pelham	11,835	4,066	2.9

Source: 1986 Municipal Directory

number of households in these municipalities as well as the persons per household for each.

West Lincoln was substantially affected by the Province's change in the unconditional grants formulae because of its relatively large number of households. Prior to this change some unconditional grants were calculated on a per capita basis. West Lincoln was adversely affected by this change and is now partly relying on the Province's revenue guarantee to maintain its unconditional grant level.

## 2.2.1 PROPERTY ASSESSMENT

The Township of West Lincoln is one of the smallest municipalities in the comparison group. The total equalized assessment in West Lincoln is \$243 million while the average for the seven municipalities in the comparison group is \$326 million. This ranges from a low of \$150 million in the Township of Wainfleet to a high of \$450 million in Niagara-on-the-Lake. Notwithstanding this lower equalized assessment level, the commercial, industrial and business assessment in West Lincoln, when expressed as a percentage of total, approaches that of the other municipalities. Assessment in the business sector in West Lincoln represents 19% of total, while the comparison group averages 22%. This average includes the extremely high level of business assessment in

Thorold at 51%. If this commercialized municipality were excluded from the comparison for this one item, the level of commercial assessment in the comparison group would be 17%.

## 2.2.2 TAXATION

Tax revenue in West Lincoln in 1984 for local purposes only (excluding Region or School purposes) totalled \$1.1 million. This compares to the \$1.9 million average for the rest. This is not to say that actual taxation rates in the other comparison municipalities are higher. Residential tax per household in Thorold is one of the lowest in the sample set because of the substantially large commercial and industrial sector. West Lincoln, at \$271 per household, on the other hand, approaches the average of \$289 per household.

# 2.2.3 OPERATING REVENUE

West Lincoln's total operating revenue, at \$2.9 million is significantly lower than the average for the sample set of \$4 million. Because of West Lincoln's reliance on the MTC road subsidies, it has a much less dependence on taxation and other municipal revenues. Conditional grants in the Township represent 31% of the total operating revenues of the municipality. This is significantly higher than the average for the sample set of 14%. On the other hand, taxation in West Lincoln represents 37% of

revenue while the average for the sample set is 45%.

#### 2.2.4 OPERATING EXPENDITURES

Total expenditures in West Lincoln, at \$2.9 million, are much lower than the average for the sample set of \$3.9 million. This reflects a municipality offering a reduced spectrum of services to a smaller community. As already pointed out, this smaller spectrum of services centres principally around the provision of roads. When expenditures are expressed as a percentage of total road maintenance and improvements in West Lincoln play a singularly prominent role. Table 2-11 describes this by comparing West Lincoln's expenditures to the average for the sample set. Also, Table 2-12 presents all data compared.

Table 2-11

#### EXPENDITURE COMPARISON

	West Lincoln	Average for Sample Set
Protection	6%	9%
Transportation	53%	39%
Environment	10%	17%
Recreation	10%	16%
Other	21%	25%

Note: The total for the sample set does not sum to 100% because each item represents the average for the comparison group for that expenditure category.

Table 2-12

1984 FINANCIAL COMPARISON
-- TOWNS UNDER 20,000 --

	WEST LINCOLN	WAINFLEET	THOROLD	GRIMSBY	LINCOLN	NIAGARA- ON-THE-LAKE	PELHAM
<b>*************************************</b>	=======================================			:::::::::::::::::::::::::::::::::::::::			
Population	9,936	5,983	16,086	16,719	14,404	12,359	11,835
Households	2,971	2,682	5,631	5645	4,888	4,600	4,066
Equalized Assessment (\$000's	243,451	149,505	389,078	403,047	367,179	450,106	282,613
% Residential	81%	90%	49%	78%	79%	79%	90
% Comm., Indust., and Bus.	19%	10%	51%	22%	21%	21%	10
Taxation (General levy only)							
(\$000's)	1,072	648	3,087	2,707	2,184	1,998	1,391
Res.Tax/Household	271	213	244	347	330	326	289
Revenue (\$000's)	2,864	1,747	5,729	5,487	4,471	4,489.0	2,977
% Tax	37%	38%	54%	49%	49%	45%	46
% Uncond. Grant	11%	13%	7%	10%	11%	5%	13
% Ontario Cond. Grant	31%	15%	9%	8%	10%	9%	13
% Other	21%	34%	30%	33%	30%	41%	29
Expenditures (\$000's)	2,881	1,693	5,734	5,617	4,413	4,370	2,912
% Protection	6%	7%	13%	7%	8%	8%	17
% Transportation	53%	32%	30%	23%	34%	22%	32
% Environment	10%	6%	167	29%	20%	23%	17
% Recreation	10%	16%	18%	22%	14%	16%	14
% Other	21%	39%	23%	20%	24%	31%	20
Expenditures per Household							
Protection	59	44	132	70	72	76	122
Transportation	514	202	305	229	307	209	229
Environment	97	38	163	278	181	218	122
Recreation	97	101	183	219	125	152	100
Other	204	246	234	199	217	295	143
TOTAL	970	631	1,017	995	903	950	716

Source: 1984 Financial Statements and 1986 Municipal Directory

#### 2.3 FINANCIAL REVIEW OF THE REGIONAL MUNICIPALITY OF NIAGARA

This section presents a financial review of the Regional Municipality of Niagara and includes, where possible, a five year historical summary for the years 1980 through 1984, inclusive. Also, a detailed examination is made for the last year of 1984.

## 2.3.1 POPULATION AND PROPERTY ASSESSMENT

The Region of Niagara is made up of twelve area municipalities — five cities, five towns and two townships. The population of each municipality in 1984 is as follows:

Table 2-13
1985
POPULATION OF NIAGARA REGION

Cities					
	St. Catharines	123,104			
	Niagara Falls	71,088			
	Welland	45,173			
	Port Colborne	18,653			
	Thorold	16,086			
Towns					
	Fort Erie	24,073			
	Grimsby	16,719			
	Lincoln	14,404			
	Niagara-on-the-Lake	12,359			
	Pelham	11,835			
Townships					
	West Lincoln	9,925			
	Wainfleet	5,983			
	Total	369,402			

Source: 1986 Municipal Directory

The growth rate in the Region has not been rapid. The population in the Region has increased by only 1.1% from 367,665 in 1980 to 371,600 in 1984. On the other hand, the number of households increased by 2.7% from 136,447 in 1980 to 140,099 in 1984. This higher growth in households results from a movement to slightly smaller household sizes over the period of study -- 2.9 persons per household in 1980 to 2.7 persons per household in 1984. Table 2-14 shows the level of population and the number of households in the Region for the period from 1980 through 1984 inclusive.

Schedule 2-14

RESION OF NIAGARA

# POPULATION AND HOUSEHOLDS 1980 - 1984

	Po	oulation %	Housel	holds %	Persons Per
	*	Increase	\$	Increase	Household
1980	367,665		135,477		2.7
1981	368,228	0.2%	125,995	-6.9%	2.9
1982	367,738	-0.1%	129,030	1.5%	2.9
1983	371,620	1.1%	138,965	7.7%	2.7
1984	373,010	0.4%	140,099	0.8%	2.7
	_	1.5%	-	2.7%	-

Source: Region of Niagara Financial Statements

Table 2-15 summarizes the amounts of property assessment which forms the tax base for the Region. This table totals the local taxable assessment for all the area municipalities. From

1980 to 1984 property assessment in the Region has grown by 5.8% going from \$838 million in 1980 to \$887 million in 1984. During this period, the residential and farm sector has grown more rapidly than the commercial, industrial and business sector -- 7.6% as compared to 2.5%, respectively. Because of this, residential and farm assessment now comprise a larger share of the total assessment base in the Region. In 1980, residential and farm assessment amounted to \$540 million, or 64.5% of total.

Table 2-15

RESION OF NIAGARA

TAXABLE ASSESSMENT 1980 - 1984 (\$000's)

	1980		1981		1982		1983		1984		Total
Taxable Assessment	\$	7.	\$	%	\$	7.	\$	7,	\$	%	% Inc
Residential & Farm Commercial &	540,374	64.5%	555,413	64.6%	552,896	64.6%	575,298	65.2%	581,628	65.6%	1.9%
Industrial	297,915	35.5%	304,529	35.4%	308,134	35.4%	306,567	34.3%	305,578	34.4%	0.6%
Total	838,299	100.0%	859,941	100.0%	871,030	100.0%	881,965	100.0%	887,206	100.0%	1.4%
Equalization Factor	10.97		11.01		10.61		10.29		9.97		
Equalized Assessment	7,644,086		7,909,734		8,206,344		8,569,311		8,396,967		3.9%

Source: Niagara Region Financial and Economic Survey

By 1984, this sector amounted to \$581 million, or 65.6% of total. Table 2-16 also provides a comparison of the relative sizes of the assessment in the residential and farm sector and the commercial, industrial and business sector in each of the area municipalities in 1984.

Table 2-16
RESION OF NIAGARA

# COMPARATIVE ASSESSMENT 1984

	Residential &	Commercial &
	Farm	Industrial
Niagara Falls	56%	44%
Port Colborne	61%	39%
St. Catharines	69%	31%
Thorold	49%	51%
Welland	56%	44%
Fort Erie	70%	30%
Grimsby	78%	22%
Lincoln	79%	21%
Niagara-on-the-Lake	79%	21%
Pelham	90%	10%
Wainfleet	90%	10%
West Lincoln	81%	19%
Average	65%	35%
•		

Source: Niagara Region Financial and Economic Survey

When applying the Province's equalization factors, which relate market values to property assessments, it is estimated that the value of taxable property in the Region of Niagara exceeds \$8.9 billion. On average, residential property assessment amounts to \$4,200 per household, which approximates \$42,100 when expressed on a market value basis using the derived aggregate equalization factor for the Region.

# 2.3.2 APPORTIONMENT OF THE REGIONAL LEVY

To determine the appropriate levy for each area municipality, net Regional costs are divided according to the relative amounts of assessment in each after several adjusting elements are included. To arrive at each share, rateable property is first expressed in terms of its market value using the equalization factors mentioned This is done because assessment throughout the previously. Province has not yet been standardized to the same base year, (Aggregating across different years of valuation would distort the tax paying ability of rate payers in different municipalities.) A discount factor then is applied to residential and assessment. This factor relates the derived market value standard previously established by the Province. Equivalent assessment relating to Federal and Provincial facilities is then added to the calculation. This last step is included so full expression of the municipalities wealth, or tax

ability, can be taken into consideration. The assessment related to the proposed OWMC facility would be included in the apportionment exercise at this stage. The full apportionment calculation is reproduced in Appendix C.

Table 2-17

# APPORTIGNMENT OF THE RESIDNAL LEVY 1980 - 1984 (\$000's)

	19	80	1991		19	92	19	83 19		984	
	Levy	z	Levy	X.	Levy	7,	Levy	X.	Levy	7,	
Niagara Falls	5,590	21.5%	6,617	21.7%	7,991	22.4%	8,309	21.9%	9,487	22.5%	
Port Colborne	1,158		1,340	4.4%	1,732	4.9%	1,888	5.0%	2,042	4.9%	
St. Catharines	8,551	32.7%	10,018	32.9%	10,990	30.8%	11,650	30.7%	12,869	30.5%	
Thorold	1,418	5.4%	1,511	5.0%	1,676	4.7%	1,970	5.2%	2,168	5.1%	
Welland	3,381	12.8%	3,847	12.5%	4,270	12.0%	4,527	11.9%	4,916	11.7%	
Fort Erie	1,564	5.9%	1,809	5.9%	2,303	6.4%	2,457	6.5%	2,674	6.3%	
Grimsby	993	3.8%	1,172	3.9%	1,452	4.1%	1,519	4.0%	1,730	4.1%	
Lincoln	958	3.5%	1,125	3.7%	1,350	3.8%	1,431	3.8%	1,578	3.8%	
Niagara-on-the-Lake	1,031	3.9%	1,231	4.1%	1,714	4.8%	1,818	4.8%	2,065	4.9%	
Pelham	689	2.6%	771	2.5%	887	2.5%	953	2.5%	1,074	2.5%	
Wainfleet	313	1.2%	344	1.17	481	1.3%	520	1.3%	566	1.3%	
West Lincoln	575	2.2%	668	2.2%	852	2.4%	916	2.4%	997	2.4%	
Total	26,421	100.0%	30,453	100.0%	35,698	100.0%	37,958	100.0%	42,166	100.0%	

Source: Niagara Region Financial and Economic Survey

Table 2-17 presents a summary of the Regional levy for each of the area municipalities in Niagara for the years, 1980 through 1984. West Lincoln's share was 2.4% in 1984 and this has increased from 2.2% in 1980. In dollar terms, their levy has increased because of both assessment growth and higher Regional costs, from \$575,000 in 1980 to \$997,000 in 1984. The largest share of the Regional levy falls to the City of St. Catharines which paid 30.5%, or \$12.9 million in 1984.

#### 2.3.3 OPERATING REVENUE

Operating revenue for the Region of Niagara is mainly derived from three sources: the general levy, Provincial grants and waterworks and sanitary sewerage rate receipts. In 1984, operating revenues for the Region totaled \$137 million. Of this \$42 million, or 31% was collected on the General Levy; \$57 million, or 42%, was received from the Province in the form of conditional and unconditional grants; and \$27 million, or 20%, was billed in water and sewer revenue. The balance of \$10 million, or 8%, represented fees, service charges, interest earnings and other miscellaneous funds.

Of the Provincial grants received by the Region, \$20 million were unconditional and represent the Resource Equalization, General Support and per household general assistance. The \$37

million received for specific purposes was provided mainly for the Social Services programmes operated by the Region. These include general welfare assistance, homes for the aged, day care and family counselling. The Region also received road subsidies from the Ministry of Transportation and Communications. In 1984 this assistance amounted to \$5.6 million, which generally represented a rate of 50% to 55% of eligible expenditures.

Revenues for the wholesale of water and sanitary sewerage services to the area municipalities have increased considerably from 1980, at \$13.5 million to 1984 at \$26.8 million. This increase was due to the phase out of two reserve funds used for these operations. First, in the 1970's the Region moved to a uniform water and sewer rate structure and made use of a rate stabilization fund to buffer the effect of phasing in the new rate tables. Secondly, the Region previously maintained a capital reserve fund to assist in financing some extensive upgrading of the sewerage system. These funds have since been eliminated with all capital costs being collected as a surcharge on the existing wholesale rate structure.

Table 2-18 summarizes the major revenue sources for the Region for the years 1980 through 1984 and Table 2-19 provides a detailed breakdown of revenues for 1984.

NIAGARA RESION

OPERATING REVENUE 1980 - 1984 (\$000's)

	1980	)	1981		1981 1982		1983		1984		% Inc
	\$	7.	\$	%	\$	%	\$	7.	\$	%	%
General Levy Water and Sewer Grants Fees & Service	26,421 13,491 37,056	31.3% 16.0% 43.8%	30,453 18,807 42,664	30.2% 18.5% 42.3%	35,698 22,047 45,633	31.6% 19.5% 40.4%	37,958 25,038 53,821	29.4% 19.4% 41.7%	<b>42,</b> 165 25,918 55,907	30.9% 19.5% 41.5%	59.6% 98.8% 53.3%
Charges Other	5,392 2,154	6.4% 2.5%	6,787 2,251	6.7% 2.2%	7,710 1,914	6.9% 1.7%	8,436 3,943	6.5% 3.0%	9,204 1,974	6.7% 1.4%	70.7% -8.4%
TOTAL	84,514	100.0%	100,972	100.0%	113,002	100.0%	129,096	100.0%	136,969	100.0%	62.1%
Annual Percent Inc General Levy	rease	23.4%		17.2%		9.1%		9.5%			
Grants Fees & Service		15.1%		7.0%		17.9%		5.5%			
Charges Other		25.9%		13.6% -15.3%		9.4% 100.7%		9.1% -48.7%			
TOTAL		19.5%		11.9%		14.2%		6.1%			

Source: Niagara Region Financial and Economic Survey

# RESIDN OF NIAGARA

# OPERATING REVENUES 1984

Taxation -Own Purposes	42,165,789	30.8%
-Water & Sewer Billings	26,818,334	19.6%
SUBTOTAL	68,984,123	50.4%
Unconditional Grants -Per Household General -Per Household Police -Special Assistance -Resource Equalization -General Support -Revenue Guarantee	4,168,950 6,531,355 612,000 4,430,168 4,115,678 191,019	
SUBTOTAL	20,049,169	14.6%
Conditional Grants -Transportation -Environment -Health -Social Service -Other	5,408,408 167950 3186074 27,715,502 91,495	
SUBTOTAL	36,769,829	26.8%
Other Revenue Fees, Service Charges SUBTOTAL	2,074,103 9,092,303 	1.5% 6.6%  8.2%
TOTAL REVENUE	136,969,527	100.0%

Source: Region of Niagara Financial Statements

#### 2.3.4 OPERATING EXPENDITURES

In 1984, the Region of Niagara incurred operating expenditures totalling \$136 million in seven functional departments. The largest portion of operating costs were allocated to Social and Family Services which incurred \$44 million, or 32% of total expenditures. The second largest expenditure was for Police protection which approached \$33 million, or 25% of expenditures. Waterworks and sanitary sewerage comprised the third major cost centre, totalling \$29 million, or 21%. The other Regional departments -- General Government, Transportation, Health and Planning and Development -- accounted for the balance of expenditures, 22% of total at \$30 million.

Expressed on a per household basis, the Region of Niagara incurred operating expenditures in 1984 that total \$954 per household: \$307 per household for social services; \$230 per household for police protection; \$200 per household for waterworks and sanitary sewerage and \$217 per household for the other Regional government services. The following tables provide further details. Table 2-20 presents a summary of department expenditures for each of the years from 1980 through 1984 and Table 2-21 outlines the per household expenditure trends in the Region for the same time frame.

Table 2-20

# RESION OF NIAGARA

# OPERATING EXPENDITURES 1980 - 1984 (\$000's)

	19		198	11	1982 1983		33	1984		Increase	
	\$	%	\$	7.	\$	%	\$	7.	\$	%	-
Seneral Governmen	5,179	6.1%	6,535	6.6%	9,726	8.5%	8,954	6.9%	10,107	7.4%	95.2%
Protection	22,413	25.6%	26,489	25.6%	29,507	26.0%	31,514	24.4%	33,122	24.3%	47.9%
Transportation	11,170	13.3%	12,472	12.5%	13,351	11.7%	13,452	10.4%	14,018	10.3%	25.5%
Environment	15,753	18.7%	20,329	20.5%	23,017	20.2%	28,221	21.8%	28,833	21.1%	83.0%
Health	2,960	3.5%	3,542	3.5%	3,449	3.0%	4,694	3.6%	4,945	3.6%	67.1%
Social Services	25,858	30.7%	29,054	29.2%	33,618	29.5%	41,311	31.9%	43,843	32.1%	69.6%
Recreation	24	.0%	0	0.0%	17	.0%	200	0.2%	12	.0%	-50.0%
Planning	905	1.17	980	1.0%	1,173	1.0%	1,299	1.0%	1,509	1.1%	66.7%
Total	84,262	100.0%	99,400	100.0%	113,958	100.0%	129,735	100.0%	136,389	100.0%	61.9%

Source: Niagara Region Financial and Economic Survey

REGION OF WIAGARA

PER HOUSEHOLD REGIONAL EXPENDITURES

1980 - 1984

	1980	1981	1982	1983	1984
General Government	38.04	47.90	68.64	62.69	70.72
Protection to Persons and Property	164.57	194.18	208.96	221.31	231.74
Transportation Services	82.03	91.42	94.22	94.17	98.07
Environmental Services	115.67	149.04	162.45	197.55	201.73
Health Services	21.74	25.97	24.34	32.86	34.61
Social & Family Services Recreation and Cultural	189.86	213.00	237.25	289.20	306.77
Services	0.19		0.13	1.40	0.08
Planning and Development	6.64	7.18	8.27	9.02	10.56
TOTAL	618.73	728.70	804.26	908.21	954.28

Source: Wiagara Region Financial and Economic Survey

#### 2.3.5 CAPITAL EXPENDITURES AND FINANCING

As of December 31st, 1984, the Region of Niagara was carrying long term liabilities totalling \$99.4 million. The largest portion of this was for waterworks and sanitary sewerage which totalled \$83.9 million.

All municipalities are required to submit their capital expenditure budgets to the Ontario Municipal Board (OMB). The criteria that the OMB uses to base its approvals relate to the municipality's ability to take on new debt. As a guideline, the OMB does not permit any more than 20% of the operating expenditures to be allocated to debt repayment (including principal and interest). Using this criteria, the Region of Niagara estimates in its 1984 Financial and Economic Survey that even though its outstanding debt totals \$100 million it still has available debt capacity for an additional \$64 million.

For the five years from 1980 to 1984, the Region's average annual level of capital expenditures amounted to \$21.7 million. These costs have ranged from a low of \$17.4 million in 1983 to a high of \$26 million in 1982 and were mainly for environmental and transportation services. To finance these costs the Region relied on long term liabilities, provincial grants and reserves and reserve funds. On average, the Region borrowed \$9.6 million per year. Provincial grants and subsidies averaged \$4.8 million per year, with reserves and reserve funds averaging \$6.3 million

annually. In summary, over the five years the Region financed about 45% of its capital programme through debentures, 30% by internal funds and the general levy with the remainder being provided from the Province. These figures are shown in detail for the 1980 to 1984 period on Table 2-22.

#### 2.3.6 RESERVE FUNDS

As of December 31st, 1984, the Region of Niagara maintained reserve fund balances of \$15 million. Of this amount \$2.3 million were working reserves that were readily available for operational use. A further \$6.4 million was maintained for capital purposes, with \$1.8 million held for equipment replacement and \$2.1 million set aside for insurance, workmen's compensation and sick leave payout.

These balances represent 10% of the Region's operating expenditures. This is not a large amount relative to the activity that is conducted. Although balances for capital expenditures total \$6.4 million, the previous section showed that the Region averaged \$6.3 million contributions from internal funds annually. In effect, the Region is handling its internal capital financing via the general levy and user wholesale rates with only a temporary stop over in the capital reserve fund. Table 2-23 summarizes the reserve and reserve fund balances in the Region as of December 31st, 1984.

# RESION OF NIASARA

# CAPITAL FUND TRANSACTIONS 1980 - 1984 (\$000's)

	19	1980		1	19	82	2 1983		1984	
	\$	%	\$	7	\$	7,	\$	7,	\$	7,
Unfinanced Capital										
Beginning of Year	3,020		5,293		5,792		2,297		(2,494)	)
Capital Outlay										
Seneral	340	1.5%	624	2.9%	5,252	20.2%	2,100	12.1%	453	2.3%
Protection	963	4.2%	1,022	4.5%	212		1,415	8.1%	2,437	12.2%
Transportation	9,774	42.2%	9,151	41.3%	7,918	30.5%	7,038	40.4%	6,335	31.7%
Environment	11,326	48.9%	9,525	43.0%	11,978	46.1%	4,581	26.3%	9,533	48.2%
Health	3		0	0.0%	8	.0%	0	0.0%	8	. 0%
Social Services		2.5%	821			1.5%		1.4%	752	
Other	162	0.7%	1,000	4.5%	225	0.9%	2,042	11.7%	387	1.9%
Total	23,139	100.0%	22,143	100.0%	25,999	100.0%	17,413	100.0%	20,005	100.0%
Capital Financing										
Revenue Fund	2,552	12.2%	2,673	12.3%	1,748	5.9%	- ,	9.2%	2,584	12.2%
Reserves		16.2%	4,091	18.9%	3,475			22.9%	3,993	18.9%
Liabilities	7,764	37.2%	5,353	24.7%	17,709			44.5%	7,057	33.2%
Grants	/	13.3%	5,237	24.2%	4,964			17.2%	7,258	
Other	4,392	21.0%	4,290	19.8%	1,588	5.4%	1,361	6.1%	345	1.5%
Total	20 0/5	100.07	21,644	100.07	20 404	100.07	22 204	100.07	21 277	100.07
lorar	20,885	100.0%	21,044	100.02	27,404	100.0%	22,204	100.0%	21,207	100.0%
Unfinanced Capital										
End of Year	5,293		5,792		2,297		(2,494)	)	(3,726)	

Source: Niagara Region Financial and Economic Survey

# RESION OF NIASARA

# RESERVES AND RESERVE FUND BALANCES

Working Funds Contingencies	1,465,363 869,257
Replacement of Equipment Sick Leave Insurance Workmen's Compensation	1,757,505 663,908 698,971 690,584
Capital Expenditure general administration roads sanitary and storm sewers water other and unspecified	751,212 2,829,776 891,910 918,812 965,024
Debenture Repayment	1,815,548
Library Current Purposes Health Unit - Future Expenditures Rate Stabilization - Water Fund	110,576 515,754
TOTAL	14,944,300

Source: Niagara Region Financial Information Return

#### 2.4 BOARDS OF EDUCATION

There are four school boards operating within the Region of Niagara, however only two contain the Township of West Lincoln within their jurisdiction. These boards are:

The Lincoln County Public School Board, and

The Lincoln County Roman Catholic School Board.

The other two school boards operate in the south east end of the Niagara Peninsula and are not considered in the analysis because of their distance from West Lincoln.

In 1984 pupil enrollment in the Lincoln County Public School Board totalled 17,899. This was comprised of 7,197 elementary school pupils in 28 schools and 10,702 pupils at the secondary level in 13 schools.

Three elementary schools operate in the Township of West Lincoln -- Caister, College Street and Gainsborough -- and these contained a total of 1,150 pupils in 1984 (285, 491 and 374 pupils respectively). There is one secondary school operating in West Lincoln, and this contains 300 students.

In 1984 enrollment in the Lincoln County Roman Catholic School Board totalled 7,280 students in 26 schools. Only one school operates in West Lincoln, St. Martin School, and this contains a total of 168 pupils up to the Grade 8 level.

# 2.4.1 EDUCATION LEVIES

School board costs are allocated on the basis of each municipality's weighted equalized assessment. As a result, the Lincoln County Board of Education levied a total of \$2.4 million on West Lincoln in 1984. This represented 6% of the total. On the other hand, the separate school board levied \$109,424 on the Township in 1984 and this represented 3% of their requirement.

	1984 COST SHARING Percen		Table 2-24
	LCRCSSB	LC3E-E	LCBE-S
West Lincoln	3%	6%	6%
St. Catharines	74%	64%	66%
Griasby	94%	9%	9%
Niagara-on-the-Lake	7%	11%	10%
Lincoln	5%	9%	9%
Province	2%	1%	0%
	100%	100%	100%

LCRCSSB: Lincoln County Roman Catholic Separate School Board

LCBE-E: Lincoln County Board of Education Elementary

LCBE-S: Lincoln County Board of Education Secondary

Approximately 91% of the rate payers in West Lincoln are public school supporters. During the five years from 1980 to 1984 public school assessment grew by 2.4%. Separate school assessment, however, has grown much more rapidly, at 6%, for the same period. This is shown on Table 2-25 along with the assessment level of the other municipalities in the school boards' jurisdiction.

# 2.4.2 OPERATING REVENUES AND EXPENDITURES

Provincial grants represent 52% of the Lincoln County Public School Board's revenues, while 80% of the separate board's revenues are derived from Provincial assistance. These grants have increased by 24% over the five years from 1980 through 1984 for the public board and 49% in the separate board. Similarly, taxation has increased much more rapidly in the separate board also at 49% as compared to 33% for the public board.

Costs relating to instruction naturally carry the largest share of expenditures for the school boards. For the public board, 77% of total expenditures are used for instruction while 72% is incurred by the separate board. The remaining expenditures in both boards represent school operation and maintenance, capital expenses, administration and transportation costs. Over the period of 1980 to 1984 instruction costs have increased by 34% in the public board and by 49% in the separate board.

Tables 2-26 and 2-27 summarize revenues and expenditures, respectively, for both school boards operating within West Lincoln. These summaries include historic comparisons for the years of 1980 through 1984.

Table 2-25

# ASSESSMENTS USED TO SUPPORT THE SCHOOL BOARDS 1980 - 1984 (\$000s)

ELEMENTARY AND SECONDARY SCHOOLS - LINCOLN COUNTY BOARD

Area Municipalities Within Board	1920	1981	1982	1983		Annual Avg. Compounded Rate of Change
St. Catharines	476,544	478,735	493,973	499,471	502,594	1.3
Grimsby	56,860	59,298	60,984	61,425	63,288	2.7
Lincoln	48,942	49,979	51,494	52,053	52,740	1.9
Niagara-on-the-Lake	43,718	45,601	46,479	45,750	47,555	2.1
West Lincoln	31,099	31,938	32,945	33,761	34,247	2.4
TOTAL	657,063	664,551	665,675	692,461	700,524	1.6

SEPARATE SCHOOLS - LINCOLN COUNTY ROMAN CATHOLIC BOARD

Area Municipalities Within Board	1980	1981	1982	1983	1784	Annual Avg. Compounded Rate of Change
St. Catharines	40,954	41.961	44,485	45,416	46.316	3.1
Grimsby	4.069	4,275	4,952	4,997	5,231	6.5
Lincoln	2,287	2,351	2,415	2,597	2,704	4.3
Ni agara-on-the-Lake	2,925	2,855	3,079	3,159	3,217	3.3
West Lincoln	1,261	1,364	1,479	1,500	1,589	6.0
TOTAL	51,397	52,906	55,320	57,669	59,057	3.5

Source: Region of Niagara Economic and Financial Survey

Table 2-25

# EXPENDITURES OF THE SCHOOL BOARDS 1980 - 1984 (\$0005)

ELEMENTARY AND SECONDARY SCHOOLS - LINCOLN COUNTY BOARD

		1980	1991	1982	1993	1984	Annual Average Amount	% =======
Instruction		54,150	59,062	64,859	69,488	72,570	64,046	77.1
Plant Operation and Maintenance Debt Charges Other		7,525 2,525 6,836	8,530 2,289 6,554	9,480 2,289 8,548	10,025 2,212 7,871	10,281 2,116 7,735	9,189 2,286 7,509	11.1 2.8 9.0
M billoi	TOTAL	71,037	76,535	85,176	89,596	92,302	83,030	100.0

SEPARATE SCHOOLS - LINCOLN COUNTY ROMAN CATHOLIC BOARD

		1,990	1,981	1,982	1,963	. 1,984	Annual Average Amount	% =======
Instruction		10,373	11,695	13,381	14,921	15,472	13,168	72.2
Plant Operation		·						
and Maintenance		1,640	1,838	2,049	2,216	2,450	2,039	11.2
Debt Charges		890	849	848	781	768	827	4.5
Other		1,702	1,825	2,531	2,210	2,792	2,212	12.1
	TOTAL	14,505	16,207	18,909	20,128	21,482	18,246	100.0
	==							=======

Source: Region of Niagara Economic and Financial Survey

Table 2-27

# REVENUES OF THE FORMER LINCOLN COUNTY SCHOOL BOARD 1990 - 1984 (\$0005)

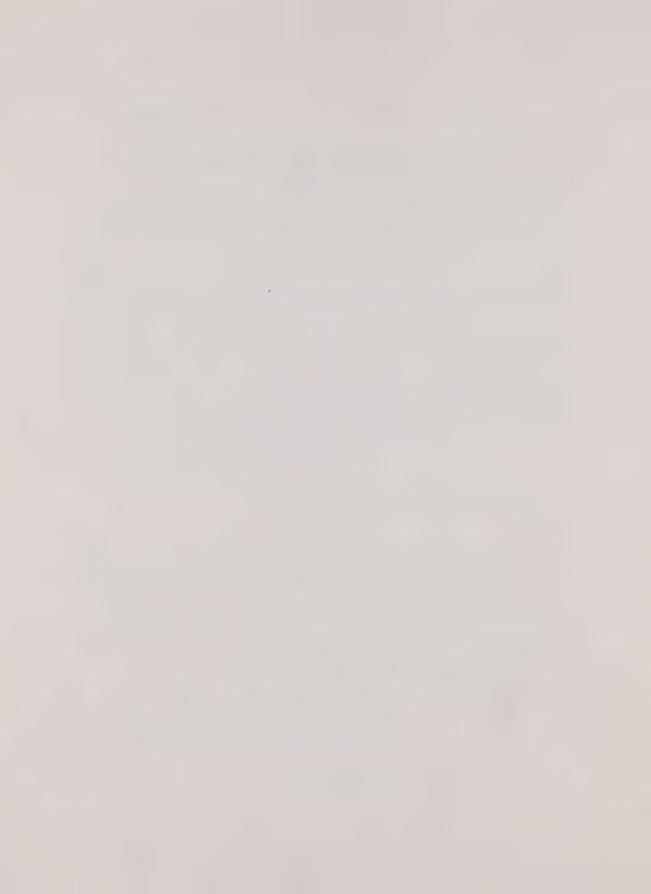
PUBLIC, ELEMENTARY AND SECONDARY SCHOOLS - LINCOLN COUNTY BOARD

							Annual Average	
		1980	1991	1982	1983	1984	Amount	7,
	====							
Taxation Contributions from		32,519	34,700	38,000	40,150	43,296	37,753	45.4
Ontario Government Contributions from		37,474	41,257	45,800	45,946	46,518	43,399	<b>52.</b> 3
Federal Government		67	45	31	519	316	195	0.2
Transfers from Reserves		172	50	657	2,192	1,718	959	1.2
Other Revenues		903	698	700	733	775	763	0.9
TOT	TAL	71,239	<b>7</b> 6,750	85,188	89,540	92,623	83,068	100.0

SEPARATE SCHOOLS - LINCOLN COUNTY ROMAN CATHOLIC BOARD

							Annual Average	
		1980	1981	1982	1983	1984	Amount	7.
22								
Taxation		2,409	2,538	2,959	3,380	3,588	2,975	16.3
Ontario Government		11,673	13,103	15,287	15,982	17,337	14,576	80.4
Contributions from Federal Government		-	-	-	-	-	-	-
Transfers from Reserves Other Revenues		5£7	543	567	8 744	556	2 <b>5</b> 95	3.3
							40.040	400.0
	TOTAL :	14,549	16,184	18,913 ========	20,114	21,481	18,248	100.0

Source: Region of Niagara Economic and Financial Survey



# CHAPTER 3

#### MUNICIPAL FINANCE IMPACT

#### 3.1 THE REGIONAL MUNICIPALITY OF NIAGARA

The Municipal Finance Impact Analysis was conducted using the computer model developed specifically for this study. This model is presented in Appendix A. The evaluation also incorporated discussions held with senior officials from the Township and Region.

#### 3.1.1 PROPERTY ASSESSMENT TAX BASE

The establishment of the OWMC facility does not have a large effect on the Region of Niagara. The property assessment from the OWMC facility and the induced growth adds less than 2% to the Region's existing tax base. Since assessment in each municipality is founded on different cost bases, assessment in each municipality cannot be directly added. When expressed in terms of market value (using the Provincial equalization factors for all municipalities in the Region), the establishment of the OWMC facility effectively adds \$130.8 million to the Region's 1984 base of \$7.7 billion.

Included in the estimates for induced residential assessment growth is a provision for 55 new households in Niagara Region. This excludes a local purchasing policy by OWMC. With such a policy, new households could increase to 69, however, this is covered in the sensitivity analysis. This is derived by the report Site Assessment, Phase 4B: Economic Impact, 1987, prepared Morehouse Economic Planning Consultants. The property by assessment from these new households is calculated using average housing assessment levels currently in the Region. This approach may understate potential additional residential assessment since the average includes a combination of old and new housing. If all in-coming residents purchased new homes the additional assessment would be larger, but then, so would the tax revenue in the respective municipalities. Because of this latter aspect the approach is considered to be conservative.

# 3.1.2 EXPENDITURE IMPACTS

Additional costs to the Region are described as either operating expenditures or capital expenditures.

# 3.1.2.1 Operating Expenditure Impacts

Annual Regional operating expenditures are forecast to increase by \$147,500 because of the establishment of the OWMC facility. This includes General Government, Police, Roads, Emergency Measures,

Water and Sewer Distribution, Health, Social Services, Planning and Development. The expenditure estimates for each department are based on components for: the cost per household for new residents moving into the Region; costs related to induced commercial growth within West Lincoln; and direct annual cost requirements of the OWMC facility. Through interviews held with most of the Department Heads, it appears that there may be some services that will not experience any cost changes because of the small number of new households. It is not expected, for example, that the Police Force will require further manpower, vehicles or equipment to service an added 55 households scattered throughout the Region out of a total of 140,000 now being serviced.

Direct annual operating expenditures are forecast to occur in three areas: additional liability insurance premiums (\$30,000-General Government); extra winter maintenance on Regional Road #24 (\$10,000-Transportation) and added health inspection requirements (\$50,000-Health Unit).

It is not expected that the Region would be liable in the event of a spill. Because of the type of facility being proposed, however, the Region's insurance premiums may be affected. This will largely depend on the agreement that may be signed between the Region and the OWMC. In the interim, however, this allowance represents 10% of the current level of premiums paid by the Region. Regardless of these events, there still may be additional

involvement in administering claims which may be brought against the Region incorrectly.

Although Regional officials do not anticipate reconstructing Region Road #24 to handle the additional truck volume, extra winter road maintenance may be necessary. Because of the substances that will be carried the Police, Emergency Measures Office and the Works Department agree that the road segment should be kept free of ice and snow to avoid accidents. The region could not determine the amount of these costs at the time of writing, however, \$10,000 per year has been provided as a contingency.

Annual health inspection requirements will be discussed in the monitoring programme that is established between the Region and the OWMC. Pending finalization of these areas, the above mentioned allocation is made to recognize the possible substantial involvement by the Health Unit in its concern for air and ground water quality. This item also is provided as a further contingency for other monitoring needs as they arise.

# 3.1.2.2 Capital Expenditure Impacts

Additional up front capital expenditures are expected to total \$100,000 before the OWMC facility proceeds. This represents \$50,000 for possible up front health monitoring since the Niagara Health Unit has suggested that a Region wide health survey prior to the establishment of the OWMC facility may be warranted. While

this could cost much more, it could also be argued that such a survey should not be completely funded by the OWMC since the study would benefit several other medical areas. A further \$50,000 provision for planning requirements arising from the induced growth effects is also included. Besides these capital expenditures it is expected that \$300,000 for professional fees related to technical reviews will be required by the Region prior to the OWMC hearing. These, however, will be offset by OWMC.

# 3.1.3 REVENUE IMPACTS

Induced annual revenue impacts result in a \$44,700 increase in Regional non-tax receipts. Some revenue increases are the result of added households which affect the Provincial unconditional grants and increased user flow on the Region's wholesale water and sewer rates. Other revenue increases result because extra costs are incurred. The Provincial unconditional grants for Social Services and Roads are designed to offset expenditures and, therefore, increase as expenditures rise. Because of the apportionment system used for dividing the Region levy among the area municipalities, the Region share of payments in lieu of taxes is described in the mill rate summary section of this report.

#### 3.2 THE TOWNSHIP OF WEST LINCOLN

# 3.2.1 PROPERTY ASSESSMENT ESTIMATE OF THE OWMC FACILITY

The preliminary property assessment estimate of the OWMC facility is based on the design costs for a 150,000 tonne per annum facility prepared by Monenco Limited (shown in Appendix B). These total \$57.5 million for land and buildings, exclusive of equipment. To relate the realty construction estimates to the local property assessment base, the analysis employed the industrial class equalization factor for West Lincoln as provided by the Ministry of Revenue who concur with the approach. These factors relate local assessment to estimates of market value.

Property assessment related to the OWMC facility is not directly taxable as defined by the <u>Assessment Act</u>, but is instead, exempt property because it is a government facility. Notwithstanding this, however, the payments in lieu of taxes will be levied on OWMC by West Lincoln in the same way as property taxes. For this reason, OWMC assessment is treated as taxable property for the purposes of this analysis.

The assessment related to the OWMC facility is not directly taxable since it is exempt property realted to a Provincial establishment. Notwithstanding this, however, the payments in lieu of taxes will be calculated in the same way as property taxes. For this analysis, therefore, the OWMC exempt property is

treated as taxable.

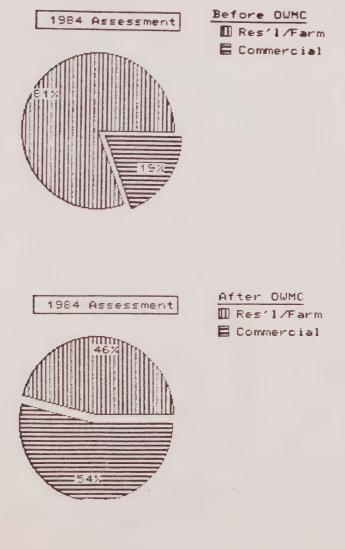
In total, the establishment of the OWMC facility and its related growth effects will add \$13.9 million in property assessment to the Township's 1984 tax base of \$15.7 million. This represents an 87% increase in the property tax base and will bring the Township's total assessment to \$29.6 million. This includes the direct assessment related to the facility as well as the induced growth effects for commercial activity in West Lincoln; additional residential assessment; the lost farm assessment that the OWMC facility will replace; and a provision for reduced property values in the surrounding area. The following summarizes

these components and the change to West Lincoln's tax base is shown in Figure 3-1.

OWMC Realty	\$8,470,000
Business Assessment	5,082,000
Induced Commercial Activity	225,000
Business Assessment	67,500
New Residential Assessment	82,100
Loss of Site Farm Assessment	(23,000)
Provision for Property Value	
Decreases	(25,000)
	\$13,878,600

TOWNSHIP OF WEST LINCOLN
IMPACT ON PROPERTY ASSESSMENT

Figure 3-1



Included in the estimates for residential assessment growth is a provision for 20 new households in West Lincoln. A local purchasing policy could increase the number of new households to 27 and this higher level is covered in the sensitivity analysis. (The derivation of this estimate and a description of the induced growth effects is contained in the report Site Assessment, Phase 4B: Economic Impact, 1987, prepared by Morehouse Economic Planning Consultants. This report also describes the effects on property values.) The property assessment from these new households is calculated using average Regional housing assessment levels. Since household averages for the Township include farm properties Regional averages were used to more closely approximate family housing. This approach also may understate potential additional residential assessment since the average includes a combination of old and new housing. If all in-migrating residents purchased newer homes the additional assessment would be larger. Since the related tax revenue accruing to the Township would also be larger the approach is considered to be conservative.

New household estimates are also used in determining some of the municipal expenditure and revenue impacts described below. To this end, the municipal finance analysis is concerned with new households moving into West Lincoln and not the full number of possible local residents who may work at the OWMC facility. This latter group already pay property taxes and demand and make use of the services provided by the Township. New residents will require

additional services. In addition, the above mentioned Economic Impact Study also comments on possible out-migration. In that report all out-migrating houses are expected to be re-occupied, however, worst case conditions may decrease the above growth estimates by 10 households. This eventuality is considered in the sensitivity analysis presented below.

# 3.2.2 EXPENDITURE IMPACTS

# 3.2.2.1 Operating Expenditure Impacts

Operating expenditures are only forecast to increase by \$116,800 annually on a 1984 level of expenditures of \$2.3 million. Included in these additional expenses is a \$50,000 provision for an additional full time staff member employed by the Township to monitor possible future OWMC impacts; an amount of \$10,000 per year for extra winter road maintenance to accommodate the movement of employee traffic (construction and operations) should Provincial or Regional roads not be used for home to work trips; and \$5,000 as a contingency for possible increased liability insurance premiums. The balance of the operating cost increases relate to the additional service required by the new households and businesses. Since this induced growth is relatively low, these related costs only approach \$52,000.

With respect to increased liability insurance costs, it is not expected that the Township would be liable in the event of a

spill since there will be no direct ownership or control of the toxic materials. Because of the type of facility being proposed, however, the Township's insurance premiums may be affected. This will largely depend on the agreement that may be entered into between West Lincoln and the OWMC. In the interim, however, this allowance represents 10% of the current level of premiums now paid. Regardless of these events, and notwithstanding Part IX of the Environmental Protection Act there still may be additional involvement by West Lincoln in administering claims which may be brought against the Township incorrectly.

# 3.2.2.2 Capital Expenditure Impacts

Additional up front capital expenditures are expected to total \$200,000 before the OWMC facility proceeds. This includes a provision of \$100,000 for emergency response and roads maintenance equipment; \$50,000 for added planning and development impacts and \$50,000 as a provision for the new household share of recreational and cultural facilities that may be required. Moreover, any commercial growth will not be such that would require municipal capital expenditures. Also, \$300,000 for professional fees related to technical reviews will be incurred prior to the hearing, however, these will be offset by OWMC.

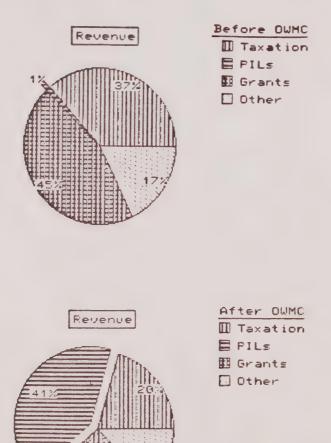
# 3.2.3 REVENUE IMPACTS

The payments in lieu of taxes made by the OWMC to West Lincoln could approach \$772,000 annually in the base impact scenario. This excludes mitigation compensation and building permit fees.

In addition, induced revenue impacts represent those impacts on non-tax revenues that can result from several sources such as: changes to Provincial grant levels because of the formulae used to calculate the grants; increased programme revenue because of additional demands for service; or, changes to water receipts because of changes in the number of users. Because of establishment of the OWMC facility, operating revenues decrease by \$63,000. This represents 3.5% of the total non-tax revenue base of \$1.8 million. While some programme revenue increases are experienced, two significant grant reductions relate to the Township's road subsidies (reduction of \$76,800) from the Ministry of Transportation and Communications, and the Resource Equalization Grant (reduction of \$8,200) paid by the Ministry of Municipal Affairs. The determination of the MTC's road subsidies includes an allowance for property assessment. The assessable property related to the OWMC, therefore, causes a reduction in the amount of assistance that will be paid by the MTC to West Lincoln. Similarly, the Resource Equalization Grant is provided by the Province to those municipalities that have a deficiency in property assessment, when compared to Provincial averages. The added OWMC assessment represents additional wealth to the Township and this totally eliminates the grant. These changes to the Township's revenue profile are shown on Figure 3-2.

Figure 3-2

# TOWNSHIP OF WEST LINCOLN IMPACT ON REVENUES



# 3.2.4 WEST LINCOLN'S SHARE OF THE REGIONAL LEVY

To determine the appropriate levy share for each area municipality in Niagara, Regional costs are divided according to the relative amounts of assessment. Rateable property is expressed in terms of market value using the Provincial equalization factors that relate assessment to property value. After residential and farm property are discounted, the assessment related to Federal and provincial facilities is added. The assessment of the OWMC plant would be included in the apportionment procedure at this last stage. The full apportionment calculation is reproduced in Appendix C.

Due to the substantial OWMC additions to the Township's assessment base, the apportionment of the Regional levy has the single largest effect on West Lincoln.

- a) West Lincoln's share of the regional levy can potentially increase from 2.4%, or \$997,200, to 5.4%, or \$2.3 million.
- b) Because of the Provincial formula used for calculating the payments in lieu of taxes, the Regional share of the OWMC PIL may total \$1,050,000 only. This leaves a shortfall of \$245,800 to be paid by the existing community through their property taxes.
- c) Since West Lincoln's share of the Regional levy increases

by \$1.3 million, all other municipalities will benefit because their levies will reduce by a corresponding amount (net of the increase in the Region's operating cost). The amount of the benefit that each other municipality enjoys will be proportional to its share of assessment. Determining the specific tax savings to the rate payers of these other municipalities, however, is beyond the scope of this report.

#### 3.3 BOARDS OF EDUCATION

#### 3.3.1 ENROLLMENT

Meetings to identify possible OWMC related impacts were held with school board officials from both the Lincoln County School Board and the Lincoln County Roman Catholic School Board. Although these discussions were preliminary, both indicated that the low number of new households forecasted (20 new households in West Lincoln and 55 throughout the Region) would not cause significantly large added costs to accommodate the associated students. The potential pupil enrollment from this small number of families could be absorbed into the current schools, assuming that the distribution of children's ages, and therefore grade levels, was reasonably dispersed. This becomes particularly true when considering out-migration. The Phase 4B Site Assessment Report on Economic Impacts suggests that, at worst, ten households may not be replaced, thus leaving the net growth in West Lincoln and the Region at 10 and 45 households, respectively.

#### 3.3.2 BUS ROUTES

Of greater concern to the school boards is the safety factor on the preferred access route (Regional Road #24 and Highway #20) from the Queen Elizabeth Way to the proposed site. School buses avoid travelling along this road unless necessary, but it is crossed frequently when collecting and dropping off students. Given the possible volume of truck traffic carrying hazardous material to the OWMC site, it is the opinion of the Boards, and particularly the Separate Board, that there may be a need to re-route present bus patterns further to reduce the number of times that the access route is crossed. Needless to say, the safety factor is of major importance, however, the cost of altering the current network will not be substantial since it may not be a case of needing more buses.

#### 3.3.3 EDUCATION LEVIES

The proposed OWMC facility will not have an impact on the school boards' cost sharing procedures as does the Regional apportionment system. Similar to Niagara Region, the school boards distribute their costs on the basis of assessment to determine how much each municipality is levied. Unlike the Region, however, the education cost sharing procedure does not include the equivalent assessment associated with government institutions and facilities. Education levies on West Lincoln, therefore, will remain at their present levels after the OWMC facility is constructed.

#### 3.3.4 SUMMARY

The school board considerations, while important, do not give rise to significant cost impacts from a municipal tax point of view. As a result, further discussion has not been included in the impact analysis. Possible effects on the school boards, however, have been taken into account in the monitoring programme. In this way, should cost impacts occur they can be identified through monitoring and mitigated on an ad hoc basis by OWMC.

# 3.4 PROPERTY TAX IMPACT

The above text describes the changes that could occur to property assessment, expenditures, revenues, payments in lieu of taxes, and apportionment of the upper tier levy on West as a result of establishing the OWMC facility. The property taxes paid by the residents of West Lincoln represent the focal point, or ultimate net impact, of all these various impact items.

In the base impact scenario, the establishment of the OWMC industrial waste site in West Lincoln may increase property taxes by 5.6%. This represents about a \$24.80 increase on average on taxes now paid to the Township and the Region of \$442.70. This increase is quoted in 1984 dollars and would occur in addition to inflation or any changes in budgetary spending that West Lincoln or the Region may consider necessary in other areas not affected by the OWMC facility. This scenario also represents the aggregate of all impacts occurring during each construction and operation

stage of the OWMC facility. The actual staging and timing of impacts is discussed in more detail later in this chapter.

The principal reason for this tax impact is that, the increase in West Lincoln's share of the Regional levy is not offset by the Region's share of OWMC payments in lieu of taxes. (The procedure for determining upper tier shares is prescribed by the Province and is based on the relative magnitudes of upper and lower tier mill rates.) Moreover, while the Township's share of OWMC payments in lieu of taxes exceeds its own costs, the difference is not offset. This is demonstrated in Table 3-1. This table shows the average annual impact after aggregating all variables over the 25 to 30 year life of the facility.

Table 3-1

# TOTAL FINANCIAL IMPACT

	West <u>Lincoln</u>	Township Share of Region Levy	<u>Total</u>
Net Expenditure/Apportionmen Increase	t \$679,800	\$1,296,900	\$1,976,700
Less: OWMC PIL	(771,800)	(1,050,000)	(1,821,800)
Net Cost (Benefit)	\$ (92,000)	\$ 246,900	\$ 154,900

Although the base impact scenario excludes mitigation, a description of the effects of compensation payments is warranted because they may cause unusual results. For example, on the surface it would appear that, to eliminate the net property tax impact shown above, the OWMC could pay the Township an additional \$154,900 and keep this extra cost from falling on the tax payer. What would actually occur, however, is that:

- a) Non-tax revenues of the Township would rise.
- b) The general tax levy of the Township will reduce.
- c) The tax mill rate therefore will fall.
- d) The payments in lieu of taxes paid by the OWMC will also decrease because these are based on the now lower mill rate.

The net result of this is that the additional compensation of \$154,900 will still leave a residual to fall to the rate payer. While this residual will not be as large as in the first instance, it can potentially become increasingly difficult to eliminate all impacts without very substantial injections of funds. Because of this situation, a more comprehensive mitigation policy is developed later in this report.

The base case impact scenario also includes assumptions that will be tested in the sensitivity analysis. For example, the above scenario considers that capital expenditures will be financed in the year that they are incurred directly from the tax

levy. This assumption is made because the both the Township and Region have a no debenture, 'pay as you go' funding policy. In the absence of an OWMC compensation scenario, this assumption is significant, but becomes minor if capital costs are funded by OWMC.

# 3.5 STAGING AND TIMING OF IMPACTS

The above analysis presents a view of the overall financial impact that the establishment of the OWMC facility can potentially have on the municipalities involved and their constituent rate payers. The phasing of the project and the staging of expenditures provide a clearer picture of how the Township may be impacted upon.

The elements affecting the municipal finance considerations give rise to four distinct impact stages.

- Impacts occurring prior to the construction,
- Impacts occurring during construction,
- Impacts occurring with operations at a 150,000 tonne/annum capacity
- Impacts occurring with operations at a 300,000 tonne/annum capacity
   Comments regarding the decommissioning of this site are

provided in chapter 5 of this report.

#### 3.5.1 IMPACTS OCCURRING PRIOR TO CONSTRUCTION

In this stage, it is assumed that all capital projects must be completed prior to the commencement of construction of the facility. This includes, but is not limited to, any required road work, all equipment acquisitions, all up front studies and especially all the extraordinary costs of hearing preparation. The significance of this assumption is that these 'big ticket' items will be necessary at a time when there will not be any payments in lieu of taxes flowing to the Township or the Region. These costs, therefore, will most likely be the subject of mitigation compensation.

In the absence of any OWMC capital compensation and assuming the Township and Region attempted to finance these expenditures entirely from the general tax levy in the same year, property taxes in West Lincoln could increase by 28%. This represents a \$125.00 increase on the 1984 average local property tax base of \$442.70. This increase, shown on Table 3-2a, is made up of the capital expenditures in West Lincoln, as well as West Lincoln's apportioned share of the Regional levy.

Table 3-2a

#### PHASE I FINANCIAL IMPACT

	Township West Share of Lincoln Region Levy			<u>Total</u>	
Net Expenditure/Apportionment Increase		\$	7,945	\$	558,239
Less: OWMC PIL	0		0		0
Net Cost (Benefit)	\$ 550,294	\$	7,945	\$	558,239

#### 3.5.2 IMPACTS DURING CONSTRUCTION

The Ministry of Revenue indicates that the payments in lieu of taxes paid by the OWMC should be handled in a manner similar to the property tax payments made by the private sector when construction periods span more than one year. During the construction period, any payments in lieu of taxes paid to the Township, and passed to the Region, will only relate to the amount of realty that has been erected at the time. Business tax will not apply until the facility is commissioned. Moreover, during this period, payments in lieu of taxes will be calculated using the mill rate category for vacant property, which correspond to the lower residential mill rates.

It is also presumed that municipal operating costs will be incurred by the Township and the Region during this period. These costs may begin in stages of the facility because the public

services that may be demanded by the in-coming households will probably arise from operational staff. Therefore, these expenses may be postponed until subsequent stages, however, for analysis purposes they are initiated here. This ensures that costs in this period are not understated.

In this phase, about \$31,400 could flow into the Township during the construction stage of the facility, even though no PIL's relating to business assessment are paid to the Township and the PIL, itself, has not yet grown to its full amount. While the Township's net tax levy may increase by \$151,000, the local share of PIL's could reach \$306,000, thus leaving an excess of \$155,600 in West Lincoln. In spite of this, the Region levy on West Lincoln could increase by \$528,000. Since the upper tier share of PIL's may only approach \$404,000, \$124,000 will have to be made up from the Township's own excess PIL. This is shown on Table 3-2b.

Table 3-2b

#### PHASE II FINANCIAL IMPACT

	West Lincoln	Township Share of gion <u>Levy</u>	<u>Total</u>
Net Expenditure/Apportionment Increase	\$150,649	\$ 528,100	\$ 678,749
Less: OWMC PIL	(306,283)	 (403,725)	 (710,008)
Net Cost (Benefit)	\$(155,634)	\$ 124,375	\$ (31,259)

# 3.5.3 IMPACTS DURING OPERATIONS -- 150,000 TONNES/ANNUM

In this stage, full payments in lieu of taxes will be calculated at the commercial and industrial rate; business taxes will be paid at the 60% level; assessment values will correspond to those determined for a 150,000 tonne/annum capacity; all induced residential and commercial growth will occur and all operating costs will be incurred as described in previous chapters.

This stage, as well as those previous, are based on decreased residential property assessment to recognize a potential for reduced property values in the surrounding area because of the OWMC facility. The Phase 4B Economic Impact Study considers that these values will return to their original amounts after a settling period which may approximate five years.

This scenario is shown on Table 3-2c. While \$1.6 million in PIL's will flow from OWMC, \$543,000 will go directly to West Lincoln with \$1.0 million representing the upper tier share. After considering both the upper and lower tier levies, excess funds of \$127,000 will remain with the Township and this will result in an 8.3% decrease in the tax levy on the local rate payers. While the 1984 average residential tax totalled \$442.70, these excess funds could reduce taxes by \$37.00, leaving a net tax per unit of \$406.00.

Table 3-2c

#### PHASE III FINANCIAL IMPACT

	West <u>Lincoln</u>	Township Share of Region Levy	<u>Total</u>
Net Expenditure/Apportionment Increase	\$179,813	\$1,275,518	\$1,455,331
Less: OWMC PIL	(542,591)	(1,039,474)	(1,582,065)
Net Cost (Benefit)	\$(362,778)	\$ 236,044	\$ (126,734)

# 3.5.4 IMPACTS DURING OPERATIONS -- 300,000 TONNES/ANNUM

As a further option, this stage considers the possibility that the OWMC facility could be brought up to a 300,000 tonne/annum capacity. In this case, the property assessment of the facility, and therefore the payments in lieu of taxes paid by OWMC, are calculated on larger construction cost estimates. All other variables remain as presented with operations at 150,000 tonnes/annum except for property value reductions. It is expected that a return to original values would occur prior to an increase of plant capacity.

In this final stage OWMC's payments in lieu of taxes could total \$1.9 million. While only \$598,000 will offset the local levy, about \$1.3 million represents the upper tier share. In

total, the PIL's will exceed expenditures by \$166,100 and this will result in an 10% decrease in local property taxes, as shown on Table 3-2d.

Table 3-2d

# PHASE IV FINANCIAL IMPACT

	West Lincoln	Township Share of Region Levy	<u>Total</u>
Net Expenditure/Apportionment Increase	\$179,813	\$1,521,206	\$1,701,019
Less: OWMC PIL	(597,774)	(1,268,991)	(1,866,765)
Net Cost (Benefit)	\$(417,961)	\$ 252,215	\$ (165,746)

#### 3.5.5 PRESENT VALUE CONSIDERATIONS

A present value analysis has not been applied to the staging and timing of impacts for two reasons. First, present value analyses are designed to be used when comparing alternative courses of action that have different streams of cash flows. Present value calculations bring the different cash flows to a common denominator so that the benefits of an option can be plainly seen. The municipal finance analysis is meant to be solely a detailed examination of possible impacts. As such, there are no alternative courses of action except for a 'no go' scenario which is represented by the 1984 base data used in the study. Secondly, present value analyses are useful when alternate courses of action

have very irregular streams of revenues or expenditures. Present value calculations can smooth financial fluctuations over time so that a clearer picture of impacts can be obtained. The impacts that may occur in West Lincoln are not expected to be irregular. With the exception of up front capital costs, annual operating expenditures and flows of funds should not experience substantial fluctuations.

The process used in a present value analysis forecasts costs and revenues as they would occur in future years. These flows are then expressed in present day dollars through the use of a discount (investment) rate. If all annual flows are exactly the same, their present value would have to be the value for the base year.

#### 3.6 SENSITIVITY ANALYSIS

The purpose of this sensitivity analysis is to test the reliability of the conclusions. By evaluating the most likely ranges for the underlying assumptions, different levels for the net property tax impact can be obtained. By comparing these results the analysis can determine the significance of the variables as well as the overall range of possible impact values. The sensitivity tests were examined using the municipal finance computer model developed for this analysis. Table 3-3 summarizes

these results.

The most significant variable in the municipal financial analysis is the valuation of the property assessment associated with the OWMC facility. Since this is based on estimates of the cost of land and buildings, the net financial impact was tested using construction costs that vary in a range from plus or minus 20% of the values used in the base impact scenario. While the base case forecasts the OWMC PIL at \$1.8 million, this could range from \$1.5 million to \$2.1 million. Moreover, the impact on property taxes varies from 9.1% when PIL amounts are low to 2.6% when the PIL approaches \$2.1 million.

All other variables have a very minor effect on the municipal finance analysis. Table 3-3 shows that migration, property values, operating expenditures and induced commercial growth have very little effect on the final tax impact.

The only other aspects that could change the results of the base impact scenario are variations in the amount of capital expenditures and the level of business assessment paid by the OWMC. These could cause as much as a 3% variation in the residential mill rate.

Table 3-3

# BENSITIVITY ANALYSIS

	OMMC SIF	Net Lavy (Local & Region)	Taxable Assessment	Exempt Assessment	Residential Mill	
	(\$000's)	(\$000's)	(\$000's)	(\$000's)		%
Base Impact	1,822	2,151	15,057	13,552	113.85	5.5%
W.L. hshlds =10	1,322	2,146	16,022	17,552	113.95	5.6%
W.L. hshlds =30	1,822	2,155	16,092	13,552	113.94	5.6%
Region hshld =40	1,822	2,151	16,057	13,552	113.95	5.6%
Region hshld =70	1,822	2,151	16,057	13,552	113.95	5.6%
Operating Exp -20%	1,811	2,138	15,057	13,552	113.19	E.0%
Operating Exp +20%	1,832	2,143	15,057	13,552	114.50	5.2%
Capital Exp -20%	1,774	2,094	15,057	13,552	110.85	2.8%
Capital Exp +20%	1,870	2,207	15,057	13,552	116.85	8.4%
Induced Assess =0	1,818	2,107	15,765	13,552	113.59	5.9%
Induced Assess = \$450,000	1,825	2,195	16,050	13,552	114.70	
Property Val Decr 30%	1,821	2,151	16,078	13,552	113.79	5.4%
Property Val Decr 40%	1,823	2,151	13,035	13,552	113.90	5.7%
OWMC ASSESS -10%	1,656	2,185	16,057	12,197	115.65	7.3%
OWMC ASSESS -20%	1,505	2,222	16,057	10,842	117.62	9.1%
OWMC ASSESS +10%	1,975	2,119	16,057	14,907	112.18	4.1%
OWMC ASSESS +20%	2,125	2,090	16,057	16,262	117.37	2.6%
OWMC Business Assess =30%	1,526	2,217	16,057	11,011	117.37	8.9%
Capital Debentured	1,646	1,943	16,057	13,552	102.93	-4.5%

#### CHAPTER 4

# MITIGATION AND MONITORING

# 4.1 INTRODUCTION

This chapter presents an approach for compensating the West Lincoln and Niagara Region for the financial impacts arising from the establishment of the proposed OWMC facility. The Municipal Financial Analysis considers all the jurisdictions that operate under the auspices of these municipalities. These agencies and departments and these are listed as follows:

# Township of West Lincoln

General Government (Council, Finance, Legal,
Administrative, etc.)
Fire Protection
Roadways and Winter Control
Waterworks and Sanitary Sewerage Retail
Distribution
Solid Waste Collection
Health Services (cemeteries)
Parks and Recreation
Libraries
Planning and Development

# Regional Municipality of Niagara

General Government
Police Protection
Emergency Measures
Roadways and Winter Control
Waterworks and Sanitary Sewerage Wholesale
Distribution (plants and trunks)
Public Health Services
Social and Family Services (general welfare
assistance, care for the aged, children's aid
and day care)
Planning and Development

It was beyond the parameters of the municipal finance analysis to establish an approach to mitigation for individuals, businesses, farms or groups. As such, community compensation beyond those agencies listed above is not discussed in this report.

#### 4.2 IMPACT MANAGEMENT: MITIGATION

#### 4.2.1 OPERATING COSTS MITIGATED BY PAYMENTS IN LIEU OF TAXES

The previous analysis chapter categorized cost impacts in terms of operational expenditures and capital expenditures. This grouping naturally lends itself to mitigation. Operating costs such as, the requirement for additional staff members, or a possible necessity to provide extra snow-plowing on Region Road #24, need not be mitigated separately since there is a substantial payment in lieu of tax being made annually that represents operating revenue. On the other hand, capital costs resulting from the OWMC

facility are not covered by normal operating revenue and could be mitigated separately. The following demonstrates this approach for both Niagara Region and West Lincoln.

#### 4.2.1.1 Niagara Region

Annual operating expenditures for the Region of Niagara are projected to increase by \$147,500. This includes the specific cost impacts directly related to the OWMC facility as well as the costs needed to service the new households and the induced commercial growth moving into the Region and Township. To offset these costs Niagara Region's share of the payments in lieu of taxes is expected to exceed \$1.0 million each year. In addition to this the new households and businesses also will pay property taxes that will go to offset operating costs.

#### 4.2.1.2 West Lincoln

Annual operating expenditures for West Lincoln are expected to increase by \$116,800 while revenues decrease by \$63,000. Costs that are specific to the OWMC facility include: the environmental project coordinator during the initial stages of the project; municipal involvement in OWMC related matters during operations and monitoring; additional road maintenance on Township roads; and a provision for increased liability insurance premiums. This cost increase also includes servicing the new households and the induced commercial growth. To offset this the local share of

payments in lieu of taxes paid by OWMC is forecast to total \$775,000 per year.

#### 4.2.2 CAPITAL COSTS MITIGATED SEPARATELY

Prior to the operation of the OWMC facility, up front capital expenditures for Niagara Region are expected to total \$100,000 before the OWMC facility proceeds. This represents a provision for the site related planning requirements and a Region wide health survey. Additional capital expenditures in West Lincoln are expected to total \$200,000. This includes an allocation for fire and roads maintenance equipment, recreational facilities and additional planning requirements.

### 4.2.3 APPORTIONMENT OF THE REGIONAL LEVY

As described above, West Lincoln's share of the Regional levy can potentially increase by \$1.3 million while the Region's share of the payments in lieu of taxes only totals \$1.0 million. This leaves a difference of \$250,000 to fall on the West Lincoln taxpayers, and this cannot be eliminated with simple solutions. An attempt to mitigate this impact can lead to more expenses. The payments in lieu of taxes are determined using the municipality's mill rate. As shown in previous chapters, an injection of funds only serves to reduce the mill rate which, in turn reduces the original payment in lieu of tax. Since a spiraling action is created an amount of about three to five times the size of the actual impact would be necessary to eliminate the cost.

There are two approaches that could be used to overcome the deficit, but both would require the concurrence of the Ministry of Municipal Affairs, not to mention that of West Lincoln.

# 4.2.3.1 Regional Mill Rate

Ministry staff recognize that the apportionment procedure can create aberrations which cause inequities. An improvement that has been implemented in one region and is being considered in several others, including Niagara, is to use a Regional mill rate rather than the apportionment procedure. While the Province would probably agree to the principle, they may also require the consensus of all municipalities in the Region since the Ministry of Municipal Affairs would require a complete reassessment of all taxable property in Niagara.

# 4.2.3.2 Revision of the PIL Formula

The second option would be to suggest a payment in lieu of tax formula that gives more money to West Lincoln than the existing one. A revised formula would be initially based on the present calculation of PIL's for West Lincoln's own requirements. To this, an added Regional share of the PIL would be determined according to the amount of the upper tier levy that is attributed solely to the OWMC facility.

The second option is probably more feasible because it would be easier to implement and it would not affect the other municipalities in the Region.

#### 4.2.4 OTHER CONSIDERATIONS

# 4.2.4.1 Building Permit Fees

The issuance of a building permit by West Lincoln will necessary before construction of the facility begins. It suggested, however, that the amount of building permit fees paid by the OWMC not be considered as a compensation item. It is accepted practice for municipalities in the province to set building permit fees so that only the administrative cost of carrying out building inspections be recovered. At present, it is not known how West Lincoln will carry out the required inspections. If, on the one hand, West Lincoln obtains this expertise through an outside agency then the OWMC may consider mitigating this cost. On the other hand, if the OWMC arranges the inspections and protects West Lincoln's liability with respect to building codes, there may not be any cost to the Township to mitigate. Under West Lincoln's current bylaw, the building permit fee could approach \$600,000 which, in the latter example, would represent a windfall to the Township.

#### 4.2.4.2 Level of Service

Once mitigation discussions begin, the OWMC may receive requests for financing for capital projects not identified in the above text. These requests should be considered in light of the level of service that is being offered to the community.

As described at the beginning of this chapter, the Municipal Finance Analysis considers the financial impact on all jurisdictions operated under the auspices of the regional and local governments. This examination included personal interviews with senior officials of the operating departments. In this evaluation several functions are judged to have no capital or extraordinary costs that could be subject to mitigation. This is not to say that there may be operating cost impacts, for example, to day care services, but these can be supported by the payment in lieu of taxes as well as the property taxes paid by in-migrating OWMC related households.

Central to the method used in the impact analysis is the level of service now provided by the municipalities. To clearly isolate the effects caused by OWMC's presence in West Lincoln, the analysis considers the amount and quality of the service currently provided to the existing residents. Any improvements to the level of service in the future is not considered to be a result of OWMC's facility, but rather, a conscious decision by the community to improve its service standards.

This type of compensation, however, is not unusual in the realm of municipal finance because local councils are the focal point of community attitudes. Since it will be extremely difficult to mitigate all personal and community impacts, compensation to the municipality, beyond the mitigation programme, can demonstrate that the OWMC is prepared to operate as a responsible corporate citizen. This has been the reason for payments that have been made to host communities elsewhere in the Province that exceed the demonstrable local financial impact.

# 4.3 MONITORING

The Municipal Finance monitoring programme is intended to identify, isolate and quantify impacts arising from the establishment of the OWMC facility as they actually occur. It is an on-going verification of the impact analysis and also will serve to determine the effectiveness of mitigation. As impacts are observed warranted corrective action can be taken.

This monitoring programme is designed to be cost effective. It is not prudent to spend a considerable effort collecting information that may be rarely used. Therefore, the monitoring items listed below are intended to be specific enough to indicate where impacts may be occurring, but general enough so as not to

require a considerable effort to compile. Most monitoring items can be obtained using the annual financial statements and records of the municipalities.

Notwithstanding the comprehensive nature of the monitoring items, impacts may arise in the future that were not foreseen and, therefore, not monitored. This certainly does not exclude these impact items from consideration. Moreover, the data that is obtained through the programme still may assist in evaluating the cause of any unforeseen impacts.

The monitoring programme is also designed so that the municipal finance computer model can incorporate the data. In this way, the model can be periodically up-dated so that further impact forecasts can be established based on the most current information.

It is expected that the required data collection will be co-ordinated by the proposed OWMC Monitoring Committee with assistance from the staffs of the Region, Township and OWMC. Moreover, as will be shown below additional analysis may occasionally draw on the expertise of Provincial Ministries or professionals in the field. The programme should commence with the initiation of construction. It is intended that monitoring be conducted annually after the municipal financial statements are available (probably by mid to late spring). For the most part,

this annual monitoring is a straight forward exercise. However, as will be shown below, some items will occasionally require a more detailed analysis. It is suggested that these be conducted at least every four to five years to ensure that all financial activity is adequately reviewed. This is not to say that specific analyses may not be conducted sooner if necessary. Whenever an anomaly with the data is identified a more comprehensive analysis may be warranted.

The detailed analyses should also include discussions with municipal and provincial officials. The department heads of the municipalities are able to identify any difficulties with meeting service requirements. Provincial officials such as the Ministry of Municipal Affairs can comment on grant programmes or apportionment procedures. Similarly, the Ministry of Revenue and the Ministry of Education may respectively assist in providing information regarding property assessment levels or school impacts.

#### 4.3.1 SPECIFIC MONITORING ITEMS

# Property Assessment Base

<u>Number of Households:</u> This item compares the household growth in West Lincoln and Niagara Region to the known in-migration of OWMC employees. Any substantial deviation from that forecast may affect municipal finances. Greater numbers may cause added

servicing demands on the Township, while smaller numbers may not generate sufficient property tax receipts.

Residential Property Assessment Per Household: Average household assessment levels indicate the relative size of the tax burden on local rate payers. Moreover, average levels incorporate property being removed from the tax base; potential decreases related to property value reductions and the possible increased value of new housing construction.

Commercial Property Assessment: This item indicates the amount of induced commercial growth that may result because of the OWMC facility. Also, the relative level of business assessment will reflect the kinds of businesses locating in West Lincoln (retail assessment is charged 30% and manufacturing is charged 60%). Similar to residential assessment greater numbers may cause added servicing demands on the Township. Smaller numbers may not generate sufficient property tax receipts. Care should be taken when monitoring this item because it may not show smooth annual increments, but instead, grow at discrete intervals. As a result, this item may be more easily dealt with at in-depth monitoring intervals.

Property Assessment for the OWMC Facility: This is the single most important variable in the municipal finance analysis since PIL receipts and regional apportionment are directly affected.

Fortunately, once the facility is constructed property assessment will not change (unless re-assessments occur). If the facility should be expanded in the future, this will add to the assessment level and monitoring only need to occur at these times.

#### Municipal Expenditures

<u>Capital Costs:</u> Similar to the suggested mitigation programme, monitoring municipal expenditures can be defined in terms of capital and operating expenses. Since capital costs can be funded separately on an up-front basis, specific monitoring may not be necessary.

Operating costs: These costs can change for two reasons:

a) because of the direct effect of the OWMC facility, b) because of added servicing demands due to household and commercial/industrial growth. With respect to the former, monitoring any operating costs stemming from the facility such as, personnel staffing, road maintenance, health monitoring etc., should be a straight forward issue.

Monitoring added service costs due to changes in the demographic base will require examining the costs per household for each of the municipalities' operating departments after applying household growth figures. Changes in the level of service offered by the impacted municipalities can also be derived

in this manner since this represents the deviation from the base impact analysis, after accounting for inflation.

Expenditure changes due to commercial growth cannot be handled in this manner. Instead, these costs may have to be considered on a specific development basis. In all likelihood, municipal operating costs related to the commercial sector will not substantially distort the per household costs described above. If the monitoring programme shows otherwise, it should be taken into account when isolating operating costs due to OWMC impacts.

Apportionment of the Regional Levy: Monitoring the effects of the apportionment system used to allocate the Regional levy can be very difficult. There are a number of variables that must be dealt with before a direct link can be made to isolate the effect of the OWMC facility. Some of these are: changes in market values in West Lincoln and the other municipalities in Niagara Region; assessment growth in the other municipalities as compared to West Lincoln; changes to the actual Region levy and non-OWMC growth in West Lincoln. A full apportionment analysis would be needed to arrive at a complete picture. As a result, monitoring apportionment could be done in two ways. The annual monitoring could simply record West Lincoln's apportionment share and dollar levy. If substantial deviations are observed, then a detailed analysis could be undertaken. In any event, it would be prudent to conduct such a review during in-depth monitoring intervals.

#### Non-Tax Operating Revenues

Payments in Lieu of Taxes: The monitoring of this item is to ensure that the operating and apportionment costs due to the OWMC facility are adequately funded. Any excess funds can then be used at the Township's discretion. Similarly, while none are anticipated, any shortfall of funds, after considering other non-tax revenue changes, can be flagged.

Provincial Grants: This item will record the changes to all Provincial grants, conditional and unconditional, that are paid to the municipalities. Although it is expected that some grants may reduce, such as, MTC road subsidies and the Resource Equalization Grant, other grants may increase because of the new households or the possible higher level of spending activity. As a result, more weight should be given to the total funding level than to individual items.

Other Revenue: Other programme and miscellaneous operating revenue sources do not play a major role for either the Township or the Region. Nevertheless, the monitoring of these items completes a review of non-tax revenues. It could happen for example, that in the future the Township may place a greater emphasis on user fees for water distribution or recreational facilities.

#### Net Property Taxes:

This item monitors the net impact of all the above items taken together to obtain the final effect on the rate payer. Since the mill rate is the ultimate balancing item to equate revenues and expenditures, the final test of the mitigation programme can be seen through changes to the tax levy.

It may be difficult, though, to establish guidelines for acceptable levy increases, such as the level of inflation. In several ways West Lincoln is on a threshold position in moving from a wholly agricultural community to one with a growing residential area. As a result, some department expenditures, such as fire protection, recreation and culture for example, can be expected to escalate in amounts greater than inflation as levels of service increase. Monitoring property tax changes therefore should not be done with preconceived notions of fairness. Instead, the monitoring programme should be able to fully explain tax increases using the other monitoring items listed above.

#### CHAPTER 5

#### DECOMMISSIONING IMPACTS

The purpose of this chapter is to examine the possible impacts that could affect the financial structure of the candidate municipalities when the proposed industrial and hazardous waste management facility is closed, or decommissioned.

# 5.1 SCENARIOS AND ASSUMPTIONS

When dealing with questions regarding decommissioning, the ability to make definite statements about underlying social or economic assumptions becomes more difficult than when discussing construction or operational phases. The principal reason for this is the length of time involved until decommissioning is implemented. To overcome this, three scenarios (high, medium and low) were used to examine the municipal finance considerations. These scenarios address the magnitude of the underlying variables such as, economic activity, demographic characteristics, property assessment and levels of expenditure. The assumptions employed in these scenarios are detailed in the following paragraphs.

#### 5.2 PROPERTY ASSESSMENT

#### 5.2.1 The OWMC Facility

Present Provincial policy regarding payments in lieu of taxes by crown corporations is the same as for private business. When decommissioned, business assessment, and therefore a business portion of the payment, is not applicable since the facility is no longer in operation. Payments on the remaining realty are still made and, if any demolitions occur, these payments only apply to the net amount of realty remaining. Moreover, since the premises are vacant the payments are calculated at the reduced residential mill rate rather than at the higher commercial mill rate. Of course, it is first presumed that this Provincial policy will still be in effect when the OWMC facility is decommissioned.

It is also assumed that demolitions or removals occur when the OWMC facility is decommissioned. Each of the scenarios deal with varying amounts of remaining realty. In the high scenario it is assumed that all realty remains. In the medium scenario 50% remains and in the low scenario 10% remains.

# 5.2.2 Other Related Commercial Activity

The commercial activity that entered the West Lincoln area because of the establishment of the OWMC facility may, or may not, remain after decommissioning. This depends largely on the level of other economic activity in the area. It is assumed in the high scenario that this induced commercial activity remains operable. In the

medium scenario it is assumed that 50% of the businesses close down. In the low scenario it is assumed that all OWMC related businesses close, thus leaving West Lincoln with the number of commercial activities that it had prior to construction.

Provincial policy for property taxation of these businesses is the same as that related for OWMC's payments in lieu of taxes previously described. When a business ceases operation, business tax stops and the remaining vacant realty is charged property taxes at the lower residential rate. It is not assumed, however, that structures are demolished. Urban commercial structures are not like industrial specialty structures such as the OWMC facility. Vacant commercial realty can remain in place for a considerable period while taxes are paid. While no revived activity is anticipated, this type of property is available for alternate use.

#### 5.3 HOUSEHOLD ACTIVITY

In the decommissioning analysis it is assumed that houses are not demolished, regardless of the level of any possible out migration. In terms of the housing stock any net out migration only manifests in terms of larger vacancy rates. For financial considerations, this implies that the taxes on the houses are paid by the owners, even if absent.

The demand for service does, however, relate to the number of households in the area. Therefore, operating expenditures associated with the provision of service varies according to the net out migration after decommissioning. In the low scenario it is assumed that all OWMC related households leave West Lincoln (20 households) and Niagara Region (55 households) and there are no replacements. In the medium scenario it is assumed that half of the OWMC households leave the area and are not replaced. The high scenario assumes no net out migration.

### 5.4 MUNICIPAL EXPENDITURES

The description of scenarios as high, medium or low has thus far referred to the level of residential or business activity remaining in the area. While the financial computer model generates operating costs related to the provision of services to the residential and business sectors, additional operating expenditures are also included to reflect the specific impacts of decommissioning the OWMC facility on West Lincoln and Niagara Region. The discussion of some OWMC related expenditures, however, describes cost alternatives in terms of most expensive to least expensive. The alignment of cost options within the scenario structure places the higher cost estimates in the low growth scenario and the lower cost options in the high growth scenario. In this way boundaries for a worst to best case are established.

### 5.5 PROPERTY TAX IMPACT

The scenarios represent upper and lower boundaries for impacts ranging from a low growth/high expenditure possibility to a high growth/low expenditure eventuality. The resulting impacts therefore reflect a range of property tax changes in West Lincoln from increases in the worst case to reductions or savings in the best case. In the low growth/high cost scenario decommissioning the OWMC facility may increase property taxes by almost 10.0% over the 1984 base year for analysis. Property taxes could increase by 2.0% in the medium scenario and decrease by as much as 4.0% over the 1984 base in the high growth/low cost scenario. These estimates can be compared to the overall operating impact forecast in the main municipal finance study which predicts a 5.6% increase in property taxes in the absence of mitigation.

### CHAPTER 6

### CONCLUSIONS AND RECOMMENDATIONS

The overall impact in the base case scenario without mitigation appears large, increasing the property tax burden on the rate payers of West Lincoln by 5.6%. This comes about for two reasons.

### 6.1 UP FRONT COSTS

First, there are up front capital costs of \$300,000 to be incurred before the OWMC facility is put into operation. In spite of the overall impact and regardless of a mitigation programme, the payments in lieu of taxes that will be paid by OWMC will approach \$1.5 to \$2.1 million per year. Since these payments are so large, the Township will be in a net benefitting situation financially once the initial start up costs have been incurred and normal operations of the facility are underway. When the impact analysis is staged to reflect the timing of costs and revenues, it is shown that the Township will remain with an excess of PIL receipts of \$127,000. This can result in an 8.0% decrease in the tax levy on the local rate payers. There are still problems with this example, however, as will be shown below.

### 6.2 APPORTIONMENT OF THE REGIONAL LEVY

impact on the Region's levy may be substantial, possibly increasing from \$997,000 to \$2.3 million per year. This comes about because Regional apportionment is based on the relative amount of assessment in each municipality and the proposed facility adds an extremely large amount of property assessment to the Township's tax base. Moreover, the annual payment in lieu of tax is still large enough in total to fund this added expense once normal operations at the plant begin. The difficulty arises, however, in the sharing of the PIL between the Region and the Township. The Regional portion of the PIL, as determined using the Provincial formula, may not be large enough to fund the entire increase in the Regional levy. As a result, paying this cost from the total PIL erodes that share that would normally accrue to the Township. In the previous example it was stated that the Township will remain with excess PIL receipts of \$127,000. This is after a portion of the Township's share of the OWMC PIL is used to pay for the increased Regional levy. If this was rectified West Lincoln would receive an excess PIL of \$363,000 per year, after all other OWMC related operating costs are paid. This is then available to use for other municipal purposes.

### 6.3 RECOMMENDATIONS

Given the above, the following recommendations are suggested.

### 6.3.1 Payments in Lieu of Taxes

It is suggested that OWMC make full payments in lieu of taxes to West Lincoln and Niagara Region. Moreover, not all cost impacts need be compensated for separately. Some represent costs that would normally be paid for out of the municipalities' standard tax receipts and general levy. Therefore, the substantial payments in lieu of taxes will automatically defray operating costs specifically related to OWMC.

### 6.3.2 Capital Costs Mitigated Separately

Up front capital expenditures resulting from the requirements of the OWMC facility can be mitigated separately. Capital expenditures in West Lincoln are expected to total \$200,000 before the OWMC facility proceeds. This includes fire and roads maintenance equipment, the new household requirements for recreational and cultural facilities and additional planning requirements. Up front expenditures resulting from the presence of the OWMC plant for Niagara Region are expected to total \$100,000. This represents site related planning requirements and a portion of a proposed Region wide health survey.

### 6.3.3 Building Permit Fees

The issuance of a building permit by West Lincoln will be necessary before construction of the facility begins. At present, it is not known how West Lincoln will carry out the required inspections. If, on the one hand, West Lincoln obtains this expertise through an outside agency then OWMC may consider mitigating this cost. On the other hand, if OWMC arranges the inspections and protects West Lincoln's liability with respect to building codes, there may not be any cost to the Township to mitigate. Under West Lincoln's current bylaw, the building permit fee could approach \$600,000, which in the latter example, would represent a wind fall to the Township.

### 6.3.4 Apportionment of the Regional Levy

To allow for a large enough Regional share of the PIL to fully fund the impact of apportionment on West Lincoln it is suggested that the Provincial method for determining the payment in lieu of tax be revised. This revision would be based on the current derivation of PIL's for West Lincoln's own purposes. In addition to this, the Regional PIL would be determined according to the amount of the upper tier levy that is attributed solely to the OWMC facility.

While two options are presented in the text, this option is being recommended because it is less disruptive to the other municipalities in the Region and it places funds directly with West Lincoln.

### 6.3.5 OWMC Payments

Given the above recommendations for payments in lieu of taxes and mitigation, the following summarizes the payments that could potentially be made by OWMC.

### OWMC Payments

Mitig	gation Paid Unce	
	West Lincoln	\$200,000
	Niagara region	100,000
		\$300,000
	Building Permits	\$600,000
	Total Up Front	\$900,000
_	ents In Lieu of Tax Annually	:
	West Lincoln	\$ 775,000
	Niagara Region	1,050,000
	Revised Formula	250,000
	Total Annual	\$2.075.000

### 6.3.6 Monitoring

It is also recommended that a monitoring programme be established.

This programme will assist in identifying and quantifying any demonstrable financial impacts on West Lincoln and Niagara Region

as they occur. In this way, the effectiveness of the mitigation measures can be addressed and the appropriate action taken. The monitoring programme should be conducted in co-operation with the Township and the Region. Monitoring should be conducted annually and begin with the construction of the facility. Periodically, the monitoring programme should also include discussions with municipal officials, provincial ministries and school boards. A complete list of the data to be monitored, level of detail and frequency was presented in Chapter 4 of this report.

## APPENDIX A

THE MUNICIPAL FINANCE COMPUTER IMPACT MODEL



### MUNICIPAL FINANCE COMPUTER IMPACT MODEL

The Municipal Finance computer Impact Model consists of six components for both West Lincoln and Niagara Region:

- 1. Population and Assessment
- 2. Operating Expenditure
- 3. Capital Expenditure and Financing
- 4. Non-Tax Revenue
- 5. Apportionment of the Regional Levy
- 6. Mill Rate Summary

(including the derivation of the OWMC PILs)

The first component establishes the demographic and tax base parameters that underlie the scenarios being tested. This includes: the property assessment of the OWMC facility; the new household growth related to OWMC and its assessment; induced commercial assessment; replaced agricultural assessment on the site and a provision for decreased assessment resulting from possible property value reductions.

The remaining components simulate the financial operations of the Township and Region using the base financial statement and budget information. This is summarized both before and after the OWMC facility would be constructed. In this, expenditures related to the waste management site as well as revenue changes are forecasted. West Lincoln's share of the Regional levy is also determined using the Province's current apportionment procedure that is based on property assessment, market values and transfer payments. In the mill rate summary, the amount of payments in lieu of taxes paid by OWMC as well as the ultimate tax impact on the residents of West Lincoln are determined.

# OWMC MUNICIPAL FINANCE MODEL Model Assumptions

Run	: Base Impact Without Mitigatio	n
1a.	New households in West Lincoln	20
1b.	New households in Niagara Region	55
2a.	Replaced Assessment	(23,000)
2b.	Lost property value (assessment)	(25,000)
2.	Total Reduced Assessment	(48,000)
3.	Induced Comm/Ind Assessment	225,000
4.	OWMC Assessment	8,470,000
5.	% Business Assessment	60
6.	OWMC ContributionRegion	0
7.	OWMC ContributionWest Lincoln	0
8.	W.L. Operating Expenditures	as generated
9.	W.L. Capital Expenditures	as generated
10.	Region Operating Expenditures	as generated
11.	Region Capital Expenditures	as generated
12.	Capital Financing	from current

		1984 Actual			OWMC Impact			
				during	150k	Phase 4 150k + prop val	300k	Total Impact
Population & Assessment								
Population		9,892						
Housing Units Residential Assessment		2,994		20	20	20	20	20
Per Unit (Note A) Current Res. Assess.		4,106 14,549,230	4,106	4,106	4,106	4,106	4,106	4,106
New Resid'l Assessment Reduced Assessment		1,10,17,000	(48,000)		82,127	82,127 (23,000)		82,127 (48,000)
Total Residential/Farm Assessment Accumulated Weighted Residential/Farm			(48,000) 14,501,230					
Assessment Commercial/Industrial		12,366,846	(40,800)	(40,800)	29,008	50,258	50,258	29,008
Assessment Business Assessment	30%	2,432,070 936,675				225,000 67,500	,	225.000 67,500
Local Taxable Assessment		15,735,591	(40,800)	(40,800)	321,508	342,758	342,758	321,508
OWMC Assessment Industrial Business	60%		0	5,649,490	5,082,000	8,470,000 5,082,000	6,123,810	5,082,000
Total OWMC		0	0	5,649,490		13,552,000		13,552,000
Total Weighted Assessment Total Assessment Residential Comm'l/Ind'l		15,735,591 17,917,975 78.6% 21.4%		5,608,690 5,601,490 -0.7% 100.7%	0.2%	13,894,758 13,903,627 0.4% 99.6%	0.3%	0.2%
% Increase			-0.3%	31.3%	77.5%	77.6%	93.1%	77.5%

Note A: Regional Average

		1984 Actual		0	WMC Impact			
			Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 150k + prop val	Phase 5 300k tonnes	Total Impact
Operating Expenditures								
General Government Protection to Persons	hco	280,152	55,000	56,471	61.678	61,678	61,678	61,678
and Property	hc	121,639	0	639	2,900	2,900	2,900	2,900
Transportation Services Environmental Services	hco	1,435,736	0	17,538	44,226	44,226	44,226	44,226
	hc	244,645	0	1,284	5,832	5,832	5,832	5,832
Health Services Social Services Recreation and Cultural	h	7,870	0	52	52	52	52	52
	h	197,119	0	1,317	1,317	1,317	1.317	1,317
Services Planning and Development	hc	32,376	0	1,317	772	772	772	772
Tota	- l =	2,319,537	55,000	77,470	116,777	116,777	116,777	116,777
Capital Expenditures								
General Government Protection to Persons		19,746	300,000					300,000
Protection to Persons								
Protection to Persons and Property		20.892	300,000					100,000
Protection to Persons and Property Transportation Services Environmental Services Health Services								
Protection to Persons and Property Transportation Services Environmental Services Health Services Social Services		20.892 273,568						100,000
Protection to Persons and Property Transportation Services Environmental Services Health Services Social Services Recreation and Cultural		20.892 273,568 20,100	100,000					100,000
Protection to Persons and Property Transportation Services Environmental Services Health Services Social Services Recreation and Cultural Services		20.892 273,568 20,100						100,000
Protection to Persons and Property Transportation Services Environmental Services Health Services Social Services Recreation and Cultural		20.892 273,568 20,100	100,000					100,000

	1984 Actual	OWMC Impact					
		Phase 1 prior to constr'n	Phase 2 during constr'n		Phase 4 150k + prop val	Phase 5 300k tonnes	Total Impact
Capital Financing							
Capital from Current Contributions from Reserves & Reserve Funds Grants and Subsidies Roads	60,833 219,291 88,000	500,000					500,000
Other Contributions	22,150						0
Subtotal Debentures	390,274 24,000	500,000	0	0	0	0	500,000
Subtotal Less	414,274	500,000	0	0	0	0	500,000
Debentures on Behalf of Others Transfers to Reserves	24,000						
Net Financing Uniinanced Capital Outlay	390,274 21,150	500,000	0	0	0	0	500,000
Existing Debt Charges New Debt Charges(5yr,11%)	87,200	0	0	0	0	0	0
Total Debt Charges	87,200	0	0	0	0	0	0
Reserves and Reserve							
Opening Balance Plus: Contributions from	688,489						
Revenue Fund Contributions from Capital Fund	370,175						
Other Contributions Less:	28,687						
Transferred to Capital Fund Transferred to Revenue Fund	219,291	0	0	0	0	0	0
Other Transfers	42,972				~~~~~~		
Closing Balance	825,088	0	0	0	0	0	0

	1984 Actual OWMC Impact						
		Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 150k + prop val	Phase 5 300k tonnes	Total Impact
Non-Tax Revenues							
Non-OWMC PILS	23,752						
Water and Sewer Billings Unconditional Grants Per Household General Per Household Police	61,906	0	413	413	413	413	413
Density Special Assistance	41,594 10.000	0	280	280	280	280	280
Resource Equalization	8,233		(8,233)	(8,233)	(8,233)	(8,233)	(8,233)
General Support	77,547	42,735	12,317	14,582	14,582	14,582	53,411
Revenue Guarantee Conditional Grants	177,862	(42,735)	(4,364)	(6,629)	(6,629)	(6,629)	(45,458)
Fransportation Social Service	861,204	0	(82,269)	(76,824)	(76,824)	(76,824)	(76,824)
Recreation Other	42,115 4,070	0	277	277	277	277	277
Program Revenue OWMC Operating	284,637	0	1,772	3,107	3,107	3,107	3,107
Other Revenue	198,454	4,706	6,628	9,991	9,991	9,991	9,991
Total Non-Tax Revenue	1,791,374	4,706	(73,179)	(63,037)	(63,037)	(63,037)	(63,037)

	1984 Actual		0	WMC Impact			
		Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 150k + prop val	Phase 5 300k tonnes	Totai Impact
Population & Assessment							
Population	373,010						
Housing Units	140,099		55	5.5	5.5	5.5	5 5
	000's 40		46	40	40	40	40
	000's	Û (460)	(4o0)	2,195 (460)	2,195 (220)	2,195 (220)	2,195 (460)
Total Residential/Parm Assessment Accumulated	000's 5,512,100	(460) 5,511,640				1,974	
Weighted Residential/Farm Assessment Commerciai/Industrial	000's 4,685,285	(391)	(391)	1,475	1,678	1,678	1,475
Assessment Business Assessment	000's 3,387,195			2,803	2,803	2,803	2,803
Local Taxable Assessment OWMC Assessment	000's 8,072,480	(391)	(391)	4,277	4,481	4,481	4,277
Industrial Business	000's 000's	6 0	54,129 0	48,692	81,154 48,692	48,692	48.692
Totai OWMC	000's 0		54,129		129,846		
Total Weighted Assessment Total Assessment & Residential % Comm'l/Ind'l	000's 8,899,295	(460) % 100.0%	53,670	134,123 134,383 1.1% 98.9%			

% Increase

Note: Regional assessment figures are equalized

		1984 Actual		01	WMC Impact			
		***************************************	Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 150k + prop val	Phase 5 300k tonnes	Total Impact
					*******			
Operating Expenditures								
General Government Protection to Persons	hco	9,399,464	30.000	32,142	35,405	35,405	35,405	35,405
and Property	hc	30,649,601	0	6,984	17,624	17,624	17,624	17,624
Transportation Services	hco	9,784,466	0	12,229	15,626	15,626	15,626	15,626
Environmental Services	hc	11,496,227	0	2,619	6,611	6,611	6,611	6,611
Health Services	hco	4,494,445	50,000	51,024	52,584	52,584	52,584	52,584
Social Services	h	42,227,405	0	16,578	16,578	16,578	16,578	16,578
Recreation and Cultural								
Services		Û						
Planning and Development	hc	1,509,620	0	344	868	868	868	868
Total		109,561,228	80,000	121,920	145,296	145,296	145,296	145,296
					:::::::::::::::::::::::::::::::::::::::			
Capital Expenditures								
General Government Protection to Persons		452,485	300,000					300,000
and Property		2,436,806						0
Transportation Services		6,335,028						0
Environmental Services		9,633,148						0
Health Services		8,093	50.000					50,000
Social Services Recreation and Cultural Services		752,176						0
Other		0						0
Planning and Development		11,760		50,000				50,000
Total		19,629,496	350,000	50,000	0	0	0	400,000

	1984 Actual OWMC Impact						
		Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 150k + prop val	Phase 5 300k tonnes	Total Impact
Capital Financing							
Capital from Current Contributions from Reserves		350,000	50,000				400,000
& Reserve Funds	3,992,716		,		,		
Grants and Subsidies	7,518,402	Û	Ú	0	0	0	Ĵ
Roads	S.L. O.I.E.	0	0	0	Ú	0	0
Other Contributions	84,915	0	J	0	Û	Û	Ú
Subtotal	14,180,181	350,000	50,000	Û	0	0	400,000
Debentures	11,008,467	0	0	0	U	0	0
Subtotal Less	25,188,648	350,000	50,000	0	0	0	400,000
Debentures on Behalf of Others Transfers to Reserves	3,951,200 375,309						
Net Financing Unfinanced Capital Outlay	20,862,139 (1,232,643)	350,000		Û Û	() ()	() ()	<b>400,00</b> 0
Existing Debt Charges New Debt Charges(5yr,11%)	18,130,400	0	0	Û	Û	Û	Ú
Total Debt Charges	18,130,400	Û	Û	0	Û	0	0
Reserves and Reserve Funds							
Opening Balance Plus: Contributions from	12,001,935						
Revenue Fund Contributions from	6,112,891						
Capital Fund Other Contributions	340,078 938,194						
Transferred to Capital Fund Transferred to Revenue Fund Other Transfers	3,992,716 456,082 0	Û	Ô	0	0	Û	Ü
Closing Balance	14,944,300	0	0	0	0	0	0

	1984 Actual OWMC Impact						
		Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 150k + prop val	Phase 5 300k tonnes	Total Impact
Non-Tax Revenues							
Non-OWMC PILS	0	0	0	0	0	0	Û
Water and Sewer Billings	26,386,470	0	10,359	10,359	10,359	10,359	10,359
Unconditional Grants							
Per Household General	4,168,950	0	1,650	1,650	1,650	1,650	1,650
Per Household Police	6,531,355	0	2,750	2,750	2,750	2,750	2,750
Density							
Special Assistance	612,000						
Resource Equalization	4,430,168		(8,233)	(8,233)	(8,233)	(8,233)	(8,233)
General Support	4,115,678	(38)	(38)	417	437	437	417
Revenue Guarantee	.191,018	38	3,871	3,416	3,396	3,396	3,416
Conditional Grants							
Transportation	5,573,572	0	6,971	6,907	8,907	8,907	8,907
Social Service	27,636,126	Û	10,850	10,850	10,850	10,850	10,850
Recreation							
Other	3,560,134	0	Û	0	0	Û	Û
Program Revenue	9,092,303	6,640	10,119	12,060	12,060	12,060	12,060
OWMC Operating							
Other Revenue	1,618,021	1,184	1,804	2,150	2,150	2,150	2,150
Total Non-Tax Revenue	93,915,795	7,824	40,103	44,326	44,326	44,326	44,326

	1984 Actual			OWMC Impact			
	***************************************	Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 · 150k + prop val	Phase 5 300k tonnes	Total Impact
Summary							
Capital from Current Paperture Payments Contribution to Reserves	109,561,228 2,584,148 18,130,400 6,112,891	80,000 350,000 0	121,920 50,000 0	145.296 0 0	145,290 0 0	145,296 Ú 0 0	145,296 400,000 0
Total Axpenditures	130,388,567	430.000	171,920	145.290	145,296	145.296	545,296
Non-lax Revenues(excl 556) fransiers from Reserves Supplementary Tax. Bell ) Payments.Spec'l Area Rates)	93,915,795 456,082	7,32 <i>h</i> Û	49.183 Q	44,320 Ú	44,326 ()	44,320 Û	44,326 Û
and Adiustments )	(148,999)						
Istal Revenue	94,222,878	7,824	46.103	44.326	44,326	44,326	44,326
beneral Levy Accumulated	44,155,789	422.176 42,587,965	131,817 42,297,006		100.971 42,260,760		560,971 42,060,760

# 1984 Regional Apportionment WITHOUT OWMC

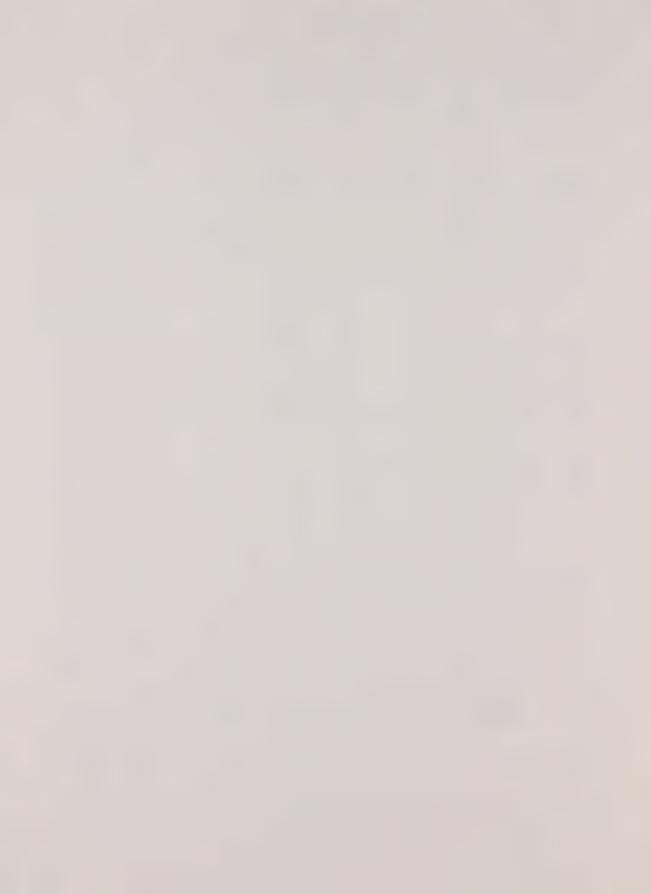
			Region Levy Discount Fact		42,165,789	
(\$000)	Res/Farm	Res Grants in Lieu		Discounted Res/Farm		
West Lincoln Rest of Region	14,546.7 560,751.2		14,546.7 568,732.5			
Totai	575,297.9	7,981.3	583,279.2	260,375.8		
	Com/Ind	Com/Ind Grants in Lieu	Equivalent	Total Com/Ind	Total Assessment	
West Lincoln Rest of Region	3,368.7 303,298.6	97.7 26.044.1	341.7 24,178.8	3,808.1 353,521.5	10,301.7	
Total	306,667.3	26,141.8	24,520.5	357,329.6	617,705.4	
	3 <b>Yr Avg</b> Equalization Factor		Responsi-		Levy	
West Lincoln Rest of Region		139,970.9 5,778.535.3	2.365 97.635		997,208 41,168,581	
Total		5.918.506.2	100.000		42,165,789	
	Total	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
LEVY WITH OWMC	2,294,146 997,208	1,005,153	1,525,308	2,271,773 997,208	2,272,720	2,518,414 997,208
OWMC IMPACT	1,296,938	7,945	528,100	1,274,565	1,275,518	1,521,206

1984 Regional Apportionment WITH OWMC

		Res'l Assess	Commerciai			
		Related		OWMC	Region	Discount
Operable Phase		To OWMC	To OWMC	Assessmnt		
1	500,980.7	34.1	292.5	13.552.0	\$42,266,760	
Phase						
1			0.0		42,587,965	0.4464
2	560,751.6		0.0		42,297,606	
3	560,980.7				42,266,760	
4	561,005.7	59.1	292.5	13,552.0	42,266,760	
5	561,005.7	59.1	292.5	16.330.2	42,266,760	
	Res/Farm	Res Grants	Totai	Discounted		
	1100,102.11		Res/Farm			
west Lincoln	14,546.7		14,546.7	6,493.6		
Due to OWMC	34.1			15.2		
Rest of Region	560,980.7	7,981.3	568,962.0	253,984.6		
Total	575,561.5	7,981.3	583,542.8	260,493.5		
	Com/Ind	Com/Ind Grants in Lieu			Total Assessment	
West Lincoln	3,368.7	97.7	3/17	2 RAR 1	10,301.7	
Due to OWMC	292.5	97.1	13,552.0	13 844 5	13 850 7	
Rest of Region		26,044.1				
meat of wekton	303,270.0	20,044.1	64,110.0	JJJ9J&I:J	001,300.1	
Totai	306,959.8	26,141.8	38,072.5	371,174.1	631,667.6	
	3 Yr Avg	Dscnted	Percent			
	Equalization Factor	Equiv	Responsi- bility		Levy	
West Lincoin	7.36	139,970.9	2,292		968,618	
Due to OWMC		188,313.5	3.063		1,303,155	
Rest of Region	10.51	5,779,509.9	94.025		39,994,986	
Total		6.107,794.3	100.000		42,200,700	

	1984 Actual			OWMC Impact			
		Phase 1 prior to constr'n	Phase 2 during constr'n	Phase 3 150k tonnes	Phase 4 150k + prop val	Phase 5 300k tonnes	Total Impact
Local Mill Rate Summary							
Operating Expenditures Capital from Current Debenture Payments Contribution to Reserves	2,319,537 60,833 87,200 370,175	55,000 500,000 0	77,470 0 0 0	116,777 0 0 0	116,777 0 0 0	116,777 0 0 0	116,777 500,000 0
Total Expenditures	2,837,745	555,000	77,470	116,777	116,777	116,777	616,777
Non-Tax Revenues Transfers from Reserves Supplementary Tax, Bell ) Payments, Spec'l Area Rates)	1.791.374	<b>4,706</b> 0	(73,179) 0	0	(63,037)	0	(63,037)
and Adjustments )	47.807	0	0	0	0	0	0
Total Revenue	1,839,181	4,706	(73,179)	(63,037)	(63,037)	(63,037)	(63,037)
Local Tax Levy Local OWMC PIL	998,564	550,294 0	150,649 (306,283)			179,813 (597,774)	
Net Local Levy	998,564	550,294	(155,634)	(363,167)	(362,777)	(417,961)	(92,015)
Region Levy Region OWMC PIL	997,208	7,945				1,521,206 (1,268,991)	1,296,938 (1,050,024)
Net Region Levy	997,208	7,945	124,375	234.781	236,044	252,215	246,914
Total Levy-Region & Thshp	1,995,772	558,239	(31,259)	(128,386)	(126,734)	(165,746)	154,898
Local Taxable Assessment Exempt Assessment-OWMC	15,735,591	(40,800)	(40,800) 5,649,490			342,758 16,330,160	321.508 13,552,000
Total OWMC PIL		0	710,008	1,582.764	1,582,065	1,866,765	1,821,853
Residential Mill Rate West Lincoln Niagara Region	53.94 53.87	83.88 54.44	45.65 60.74	33.64 65.22	33.61 65.20	30.69 66.05	47.99 65.86
Total Municipal	107.81	138.32	106.39	98.85	98.81	96.75	113.85
Residential Tax Per Average Uni West Lincoln Niagara Region	221.50 221.20	344.46 223.54	187.46 249.43		138.02 267.72	126.04 271.23	197.06 270.44
Total Municipal S Increase % Increase	442.70	567.99 125.30 28.3%	436.89 (5.80) -1.3%	(36.77)	(36.95)	(45.42)	467.50 24.81 5.6%

# APPENDIX B CAPITAL COST ESTIMATES OF THE FACILITY





Fitt.

### MONENCO LIMITED

ONE ST. PAUL STREET, ST. CATHARINES, ONTARIO CORRESPONDENCE

P.O. Box 1540, St. Catharines, Ontario L2R 7J9

Tel (416) 688 9763 Telex 061-5219 Cables "Monerco

25 March 1987 Letter No. 951 File No. 1.3.2/3.2.2

Ontario Waste Management Corporation 2 Bloor Street West 11th Floor Toronto, Ontario M4W 3E2

Attention: Mr. R. V. Griffiths
Project Manager

Gentlemen:

OWMC Treatment Facility
Monenco Contract No.: MNC 8084-2

Update of Capital Cost Estimate for Site LF-9C

As requested by OWMC, attached is the summary sheet for the revised cost estimate for Site LF-9C. This summary indicates the original estimate developed by Monenco in December 1985 (Monenco letter no. 530) and the updated cost estimate for the 150 000 t/a Partial Solidification — Without Rail Scenario. In revising the figures, the methodology used was similar to the original estimate; however, the following should be noted:

- As per the original estimate, the revised estimate is in second quarter 1984 dollars and does not include escalation.
- 2) The revised estimate includes all equipment indicated on latest P&IDs and equipment lists.
- 3) Where possible, revised equipment estimates are based on suppliers' budget quotations.
- 4) Building costs have been udpated based on current sizes as indicated on latest layout drawings
- 5) As per the original estimate, the bulk material and installation labour has been factored on the basis of the mechanical equipment. The same factors have been used. Also, the same unit cost per unit of area were used for estimates of buildings.
- 6) As per the original estimate, the engineering and construction management costs of 15% of the Total Field Cost and a contingency of 20% have been included in the revised estimate.

- 7) The revised estimate includes:
  - supply of natural gas to the site
  - storm water sewer to Welland River.
- 8) The estimate does not include the cost of a berm (or partial berm) around the site. The additional cost for a berm is defined in Monenco letter no. 927 (9 February 1987).

If you have any questions regarding the estimate provided on the summary sheet or the information in this letter, please do not hesitate to contact us. The detailed back-up sheets are available in Monenco's office for review.

The updated operating area information for tax assessment purposes will be forwarded next week.

Yours very truly,

J. V. Fitzgerald Project Manager

WG/jj Encl.

cc: Mr. E. H. Schmidt, OWMC

Mr. G. Boot

Mr. K. Dobson

Mr. R. Kellond

Mr. T. Timbers

# ONTARIO WASTE MANAGEMENT CORPORATION TREATMENT FACILITY 150 000 t/a PARTIAL SOLIDIFICATION - WITHOUT RAIL SITE LF-9C 25 MARCH 1987

DESCRIPTION	ORIGINAL (PHASE 4A) (19	REVISED 984 \$ X 1000)
INCINERATOR	37108	38694
PHYSICAL/CHEMICAL TREATMENT	28120	40089
SOLIDIFICATION	7403	11525
ENGINEERED LANDFILL	5008	5060
ON-SITE FACILITIES	52329	<b>584</b> 58
ON-SITE FACILITIES (SITE SPEC) - Fuel Oil Storage - Water Treatment - Sewage Treatment	160 927 121	222 1116 121
- Earthquake Allow. inc. Piling - Site Grading - Archeological Mitigation - Material Handling Sol'd Prod LF-9C Layout TOTAL ON-SITE FACILITIES	7001 0 28 0 2976 11650	7001 0 28 1204 (Incl. in On-Site Fac.) 10310
OFF-SITE FACILITIES  - Water  - Natural Gas  - Hydro  - Telephone  - Sanitary Sewer  - Storm Sewer  - Drainage Improvements  - Road Improvements  - Road Right of Ways  TOTAL OFF-SITE FACILITIES	359 0 138 124 0 0 1604 146 0 2371	359 1322 138 124 0 980 0 146 0 3069
TOTAL	143989	167205

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# TABLE C.4 OPERATING AREA INPORMATION FOR TAX ASSESSMENT PURPOSES 150 000 t/a CAPACITY

DESCRIPTION OF FIRE FIGHTING SYSTEM	External hydrants provided. Central anontoring facilities and computer room to be protected by a fixed Halon system. Amenities areas to be protected by sprinkler system. Associated offices, conference room etc. Associated offices, standning and hose	system.  Laboratories to be protected with port- able Halon and stand-	External hydrant plus sprinkler system.	
DESCRIPTION OF HVAC SYSTEM (SEE ATTACHED NOTES PAGE 9)	Heating provided indirect- ly from incinerator and air conditioning from steam operated absorption chillers (C). Process Ventilation (E) and General Ventilation (F) provided.		Heating provided by Forced Air (Heat Recovery from Incinerator) System (A) Heating and Cooling for Offices provided by Water to Air System, Direct Discharge (D).	General Ventilation (F) provided. Heating and Cooling for offices provided by Water to Air System. Direct bischarge (D)
ESTIMATED COST	\$ 4,076,843	(INCL. ABOVE)	\$ 1,045,731	
*/m <sup>2</sup>	\$ 1253.42	(INCL.	\$ 760.53	
CONSTRUCTION	"Formavall" and metal siding on a concrete structure i.e. frame, pillars, roof and floor form concrete structure.		Walls and roof constructed of insulated panels.	
AREA (m <sup>2</sup> )	5 80 2	1152	1375	
SIZE (m)	33 x 85 x 7.711 33 x 85 x 3.94	18 x 64 x 3.7H	25 x 55 x 5.5H	
BLOCK DESCRIPTION OF BUILDINGS NO. AND STRUCTURES	Prost Floor:  Showers, washroom and locker area o Lunch Room o Central Monitoring Room o Computer Room o Laboratories o Confrol Lab o Truckers Amenities o Conference Rooms o General Offices o General Offices o Storage and Delivery Area o Storage and Delivery Area	Second Floor: o Ceneral Offices o Conference Rooms o Storage Rooms o Washrooms o Lunch Room	2. Maintenance Building o Washrooms o Offices o Stores o Garage	
a				

# TABLE C.4 OPERATING AREA INFORMATION FOR TAX ASSESSMENT PURPOSES 150 000 L/a CAPACITY

Page 2 of 9	DESCRIPTION OF FIRE FIGHTING SYSTEM	External hydrants	External hydrant plus standpipe and hose cabinets.	External hydrants and sprinkler system for majority of building. Fixed Halon System to be provided for control Centre. Laboratories to be profected with portable Halon and standpile and hose systems.  A physical separation/ fire barrier shall be provided between areas freating organic wastes and remaining sections of the Phys/Chem Treatment of the Phys/Chem Treatment of the Phys/Chem Treatment of the Phys/Chem Treatment Plant.
25.55 20.00	DESCRIPTION OF HVAC SYSTEM (SEE ATTACHED NOTES PAGE 9)	Heating and air— conditioning provided by electric heating and packaged air-conditioning units. General Ventilation (F) provided.	Heating provided by Forced Air (Heat Recovery from Inclineator) System (A) and Energy Recovery from Process Extract. System (B).  Process Ventilation (E) and General Ventilation (F) provided.	Heating provided by Forced Air (Heat Recovery from Indimendable) System (A) and Energy Recovery from Process Extract System (B).  Process Ventilation (E) and General Ventilation (F) provided.  (F) provided wentilation for offices and Control Room provided by Water to Air System, Direct Discharge (D)
SESSMENT PURPO	ESTIMATED COST	\$ 195,960	\$ 3,310,705 \$ 42,100 \$ 630,000	\$12,274,640
CAPACITY	\$/m5	φ.	\$ 913.55	4095.95
TABLE C.ª OPERATING AREA INFORMATION POR TAX ASSESSMENT PURPOSESS 150 000 L/a CAPACITY	CONSTRUCTION	Walls and roof constructed of insulated panels.	Mails and roof constructed of insulated panels.	Malls and roof constructed of insulated panels.
ABLE C.4 OPER	AREA (B)	06	3624 TOTAL 2120 752 752	11200 TOTAL 480 2240 4480
	SIZE (m)	5 × 18 × 3 H	47 x 50 x 24H First Floor Second Floor Third Ploor	70 x 64 x 24H First Floor Mezzanine Second Floor
	BLOCK DESCRIPTION OF BUILDINGS NO. AND STRUCTURES	Gatehouse and Weighscales o Building o Weighscales o Washrooms	Solidification Plant o Building o Bunker o Overhead Cranes (2) (1 tonne capacity)	Physical/Chemical Treatment Plant Control Room C Equipment Room Laboratory O Offices O Washrooms
	BLOCK NO.	m	<b>.</b> ₹	ம்

TABLE C.4 OPERATING AREA INFORMATION FOR TAX ASSESSMENT PURPOSES 150 000 t/a CAPACITY

Page 3 of 9	DESCRIPTION OF FIRE FIGHTING SYSTEM	External hydrants plus sprinkler system for areas storing inorganic wastes.	External hydrants plus foam deluge system for areas storing organic containing wastes.	External hydrants plus sprinklers. Operation Room in florganic Processing	protected by a port- able Halon system. aber sprinkler system (if rack storage employed).	External hydrants plus water deluge spray system.		Standpipe and hose cabinets to be located in the incinerator,	auxiliary boiler and feedwater treatment areas.	
	DESCRIPTION OF HVAC SYSTEM (SEE ATTACHED NOTES PAGE 9)	Heating provided by Forced Air (Heat Recovery from Incinerator) System (A).	General Ventilation (F) provided.  Tanks to be provided with process ventilation (E).	Heating provided by Air (Heat Recovery from Inclineator) System (A) and Energy Recovery from Process Extract System (B)	Heating and cooling for offices and Control Room provided by Water to Air System, Direct Discharge (D), Process Ventilation (E) and General Ventila- tion (F) provided.	Process Ventilation (F) provided.		Heating provided by Forced Air (Heat Recovery from Incinerator), System	<pre>(K) provided.</pre>	
Secondary Purp	ESTIMATED COST	\$ 2,877,671		\$ 1,526,013		\$ 821,360 \$ 174,920 \$ 817,236		\$ 3,627,595	\$ 208,230	\$ 345,000
CAPACITY	\$/m <sup>2</sup>	\$ 913.55		\$ 763.77		\$ 760.53		\$ 1095.95		
INCLE CT. OF EARLING AND A PROPERTY INCLES OF THE ASSESSMENT PURPOSES	CONSTRUCTION	Walls and roof constructed of insulated panels.	FRP Material FRP Material FRP Material	Walls and roof constructed of insulated panels.		Walls and roof constructed of insulated panels.	FRP Material	Walls and roof constructed of insulated panels.		
	ARITA (m <sup>2</sup> )	3150	Volume (m3) 40.5 10.0 20.0	1998		1080 Volume	(83)	AREA 3310 TOTAL 1498 906	2	
	(w) 371S	45 x 70 x 12H	3.5 Dia.x 4.2H 2.0 Dia.x 3.5H 2.5 Dia.x 4.2H 1.5 Dia.x 2.5H	54 × 37 × 8H		20 x 54 x 8	2.5x3.0x4.25H	48 x 32 x 23H First Floor Second Floor		
	DESCRIPTION OF BUILDINGS AND STRUCTURES	Physical/Chemical Storage Tank Area o Building o Storage Tanks	Number of Tanks 31 9 9 9 9 10	Inorganic Drum Storage & Handling Building		Inorganic Tank Truck Unloading Area o Building o Concrete Basement o Storage Tanks Number of	Tanks	Incineration Plant o Enclosed Portion®	o Bunkers o Waste Heat Boiler* o Flue Gas Treatment*	o Overhead Crane (6 tonne capacity)
	BLOCK NO.			7.		œ*		6		

Page 4 of 9

TABLE C.4 OPERATING AREA IMPORMATION FOR TAX ASSESSMENT PURPOSES 150 000 t/a CAPACITY

6 10 1 2982	DESCRIPTION OF FIRE FIGHTING SYSTEM	Fixed Halon System provided for Control Centre.  Local water deluge system to be provided to each of feed chute and bunker.	External hydrants.		Standpipe and hose pipe to be located in in this area.	External hydrant plus foam deluge water spray for areas storing organic waste ballding construction to include explosion venting panels.  Operating room in organic processing area shall be protected by a portable Halon system. Rack sprinkler system (if rack sprinkler system (if rack sprinkler system employed).
	DESCRIPTION OF HVAC SYSTEM (SEE ATTACHED NOTES PAGE 9)	Heating and cooling for offices and Control Room provided by Water to Air System, Direct Discharge (D).			Heating provided by Forced Air (Heat Recovery from Inclinerator) System (A). General Ventilation (F) provided.	Heating provided by Forced Air (Heat Recovery from Indirerabler) System (A) and Energy Recovery from Process Extract System (B).  Heating and cooling for offices and control Room provided by Water to Air Air System Direct Discharge (D), Process General Ventilation (F) provided.
	ESTIMATED COST	* 4,968,000	Included in price of precipitator		\$ 959,228	\$ 2,940,515
	\$/m <sup>2</sup>				\$ 913.55	<b>\$</b> 763.77
	CONSTRUCTION	Precipitator con- struction to be of rigid (rame/ electrode type and Will consist of 3 fields.			Wall and roof constructed of insulated panels	Walls and roof constructed of insulated panels.
	ARCA (m <sup>2</sup> )	<b>«</b> »	N/A		1050 TOTAL 525 525	3850
	S12E	6WX9.5HX11.8H (5.5H structural steel)	4.1 Dia.x 19H		15 x 35 x 16H First Floor Second Floor	50 × 77 × 74
	BLOCK DESCRIPTION OF BUILDINGS NO. AND STRUCTURES	Incineration Plant (Cont'd) o Precipitator	o Scrubber o Offices* o Control Room* o Washrooms*	• Included in incinerator building cost.	Auxiliary Boller and Feedwaler Treatment	Organio Drum Storage & Handling Building
	BLOCK NO.	o'				.01

TABLE C.4 OPERATING AREA IMPORMATION FOR TAX ASSESSMENT FURPOSES 150 000 t.a CAPACITY

Page 5 of 9	DESCRIPTION OF FIRE FIGHTING SYSTEM	External monitor hydrants plus foam.	External hydrants plus foam deluge water spray.		External hydrants plus foam.	External monitor hydrants plus foam	External hydrants plus from injected sprinkler system. Building construction to include explosion venting panels.
	DESCRIPTION OF HVAC SYSTEM (SEE ATTACHED NOTES PAGE 9)		Process Ventilation (F) provided.		Tanks to be provided with Process Ventilation (E).		Heating provided by Forced Air (Hatz Recovery from Incinerator) System (A). General Ventilation (F). Process Ventilation (E) (if required).
	ESTIMATED COST	\$ 3,876,243	91,264	178,848	193,200	325,073	698,280
	ESTI CO	ψ. Θ.	φ <b>φ</b>	**	**	₩	*
CAPACITY	≥ w/ <b>*</b>	11/A A	\$ 760.53		N A	л ,/ А	\$ 552.00
150 000 t/a CAPACITY	CONSTRUCTION	Carbon Steel Carbon Steel Carbon Steel Carbon Steel			Carbon Steel		Walls and roof constructed of insulated panels.
	AREA (m <sup>2</sup> )	Volume (m3) 125.7 10.0 50 20	AREA 870 Volume	(B)	Volume (m3)	Volume (m3)	AREA 1265
	S12F. (m)	4.0 Dia.x 10.0H 2.2 Dia.x 2.7H 4.0 Dia.x 4.2H 2.5 Dia.x 4.2H	23 x 26 x 8H + 8 x 34 x 8H	4 x 7 x 1 1/2 (Sloping Sides)	3.6 Dia.x 4.0H	3.5 Dia.x 4.2H	23 x 55 x 8H
	BLOCK DESCRIPTION OF BUILDINGS NO. AND STRUCTURES	Incinerator Tank Farm o Storage Tanks  Number of Tanks  19 19 1	Organic Tank Truck Unloading Area o Building To o Concrete Pit o Storage Tanks	Tanks	Incinerator Waste Receiving Tanks o Storage Tanks Incineration of Tanks	Segregated Organic Storage Tank Area o Storage Tanks Number of Tanks	Storage Bullding
	BLOCK NO.	<del>-</del>	12.		m m	÷	15.

TABLE C.4 OPERATING AREA IMPORMATION FOR TAX ASSESSMENT PURPOSES

		, .	ا د -	INDER C. TUTERAILING ANEA ANTOURNISM TO BE STATEMENT OF THE STATEMENT OF T	APACITY				Page 6 of 9
BLOCI NO.	BLOCK DESCRIPTION OF BUILDINGS NO. AND STRUCTURES	SIZE (m)	AREA (m²)	CONSTRUCTION	*/m <sup>2</sup>	EST.	ESTIMATED	DESCRIPTION OF HVAC SYSTEM (SEE ATTACHED NOTES PAGE 9)	DESCRIPTION OF FIRE FIGHTING SYSTEM
16.	Main Substation	20 x 25 x 4,25H	200		49.68		24,840		External Hydrants Firewalls separating Hain Transformers from each other and Area 17 will be provided.
17.	Emergency Pover Station	20 x 23 x 4.25H	09 h	3 walls - insulated panels - insulated I wall - brick Roof - buildup roof of asphalt and gravel	\$ 760.53	49	349,845	Steam Unit Heating and General Ventilation (F) provided.	External Hydrants
18.	Surface Water Pumphouse	12 × 8 × 4H	96	Walls and roof constructed of insulated panels.	\$3,061.87	49	293,940	Steam or electric heating Ventilation (F)	External Hydrant
19.	Sanitary Sewage Plant	Ha × a × a	16	Walls and roof constructed of insulated panels.	\$1,725.00	*	27,600	Steam or electric heating Ventilation (F)	External Hydrant
20.	Raw Water Treatment Plant	12 × 10 × 4H	120	Walls and roof constructed of insulated panels.	\$1,380.00	40	165,600	Steam or electric heating Ventilation (F)	External hydrant plus standpipe and hose.
2.	Firewater Pumphouse	12 × 8 × 4H	96	Walls and roof constructed of insulated panels.	\$3,061.87	*	293,940	Steam or electric heating Ventilation (F)	Sprinkler system to be provided for pumphouse and a valved fire pump test header to serve as a hydrant.
25.	Solidified Material Interim Storage Building	20 x 15 x 8H	300	Walls and roof constructed of panels.	\$ 552.00	•	165,600	165,600 Ventilation (F)	External Hydrant
28.	Incinerator Stack o Outer Shell o One (1) Liner (Allowance for Prture Liner)	60H 4.5 ID, 5 OD (NOM.) 1.3 m ID (NOM.)	N/A	Concrete Carbon Steel		*	\$ 1,242,000	М/А	External Hydrants

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TABLE C.4 OPERATING AREA IMPORMATION FOR TAX ASSESSMENT PURPOSES 150 000 t/a CAPACITY

External hydrants plus deluge water spray system for each truck DESCRIPTION OF FIRE FIGHTING SYSTEM External Hydrants External Hydrant wash bay. DESCRIPTION OF HVAC SYSTEM (SEE ATTACHED NOTES PAGE 9) Steam or electric heating Ventilation (F) from Incinerator) System (A). Process Ventilation (E) provided. Heating provided by Forced Air (Heat Recovery Ventilation (F) ES:FIMATED COST 241,500 459,540 285,200 65,881 93,840 293,940 30,008 30,008 52,514 75,020 215,683 49 49 1614 \* 49 \*\* 44 49 37.51 37.51 37.51 \$ 760.53 37.51 37.51 \$ 3061.87 \$ 2606.00 \$/102 49 49 49 44 insulated panels. insulated panels. Concrete stack with steel liner CONSTRUCTION Walls and roof constructed of Walls and roof constructed of Walls and roof constructed of Carbon Steel punels. 375 N/A 800 800 1400 2000 5750 36 96 AREA (m2) 30H x 2.5 ID (NOM.) 45H x 0.8 ID (NOM.) 15 x 25 x 6H 6 x 6 x 16H 12 x 8 x 4H SI2E DESCRIPTION OF BUILDINGS AND STRUCTURES Temporary Truck Holding Area (Inorganic) (Paved Area) Temporary Truck Holding Area (Organic) Auxiliary Boiler Stack Truck Load Out Station Car Park (paved area) o Concrete Basement Truck Holding Area (Organic) Evaporator/Recycle Pumphouse Truck Holding Area Truck Wash Station Evaporator Stack (Paved Area) (Paved Area) (Inorganic) o Building o BLOCK 42. 29. 30. 33. 34. 36. 43. 45. 32. 35.

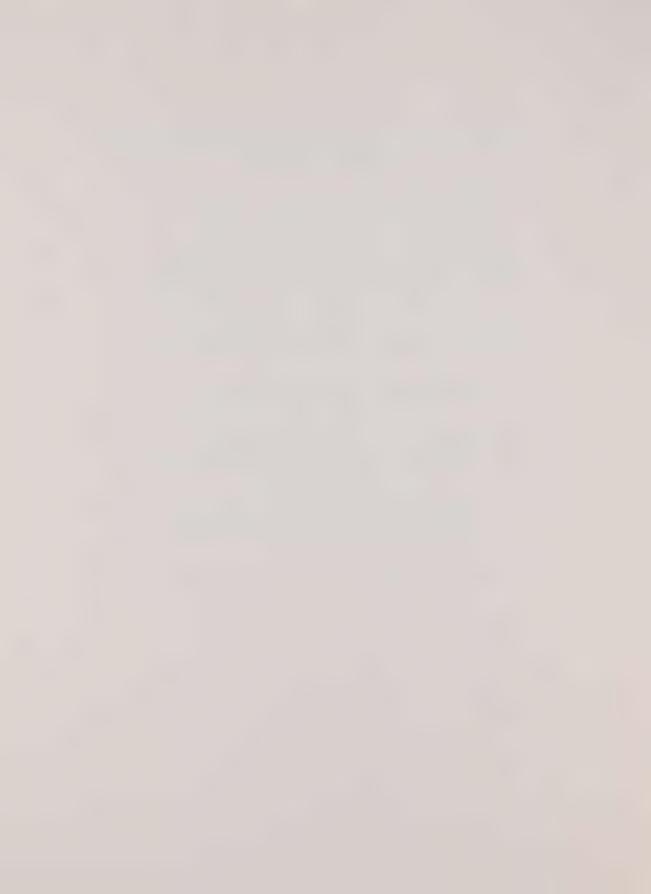
			ABLE C.4 OPE	TABLE C.4 OPERATING AREA INFORMATION FOR TAX ASSESSMENT PURPOSES 150 000 t/a CAPACITY	ON FOR TAX	ASSESSMENT PUR	POSES	Page 8 of 9
BLOCK NO.	BLOCK DESCRIPTION OF BUILDINGS NO. AND STRUCTURES	S12E (m)	AREA (m <sup>2</sup> )	CONSTRUCTION	≥ E/ ♦	ESTIMATED	ESTIMATED DESCRIPTION OF HVAC SYSTEM DESCRIPTION OF FIRE COST (SEE ATTACHED NOTES PACE 9) FIGHTING SYSTEM	DESCRIPTION OF FIRE FIGHTING SYSTEM
46.	46. Fuel Oil Tanks Mumber of Tanks	5 Dia. x 15H	Volume (m <sup>3</sup> ) 295	Carbon Steel		\$ 242,880		External monitor hydrants plus foam
47.	47. Effluent Storage Tanks Number of Tanks 5	6 Dia. x 12.3H	Volume (m3) 320	Carbon Steel		\$ 752,376		External Mydrant

# TABLE C.4 OPERATING AREA INFORMATION FOR TAX ASSESSMENT PURPOSES 150 000 t/a CAPACITY

### NOTES: 1. Definition of HVAC services are as follows:

- A = Outside air heated by energy recovery (where applicable) and Glycol/Water Coil indirectly served by steam from incinerator, plus steam unit heater for local control.
- B = Heat energy recovery by run-a-round system between process/general extract and forced air heating system (A).
- C = Full air-conditioning, heat indirect from incinerator and cooling from steam operated absorption chiller.
- D = Semi air-conditioning, (heating and cooling only) heating recirculated plus outside, indirect from incinerator, cooling from central systems. Forced air delivery.
- E = Process Ventilation i.e. extract from process areas and or equipment. Also refers to closed tank extract.
- F = Generally roof exhaust fans, washroom ventilation, etc.

# APPENDIX C 1984 APPORTIONMENT FOR NIAGARA REGION



### ASSESSMENT REGION NO. 18

Regional Municipality Niagara

Box 1270

43 Church Street.

St. Catharines, Ontario L2R 7A7

Director Fin. Serv

Budgets

Supp. & Ser.

Research

Return to Central Fila

E.D.P.

FINANCE DEPT. To int/l. Tel. 416 688 02 /

July 25, 1984

Regional Municipality of Niagara 2201 St. Davids Road P.O. Box 1042 THOROLD, Ontario L2V 4T7

Attention: Mr. S. Howder

Director of Finance

Dear Mr. Howder:

Re: Final 1984 Apportionment for the Regional Municipality of Niagara

Please find attached the Final 1984 Apportionment for the Regional Municipality of Niagara, as provided for in Sections 128 and 129 of the Regional Municipality of Niagara Act, 1980, and regulations under the Ontario Unconditional Grants Act.

Total Equalized Assessment includes, where applicable:

- 1. The total taxable assessment according to the 1983 Assessment Rolls as returned, discounted and equalized.
- 2. The valuations for payments in lieu of taxes, which include payment in respect of upper tier levies paid by the Crown in the Right of Canada or any Province or any Board, Commission, Corporation or other Agency thereof or the Ontario Hydro Electric Power Commission of Ontario to any area municipality as in accordance with Section 128 (11) of the Regional Municipality of Ningara Act, 1980, discounted and equalized.
- 3. The equivalent assessment of payments received in accordance with Section 4 of the Provincial Parks Municipal Tax Assistance Act, 1974 and Sections 160 and 161 of the Municipal Act, all as equalized.



.../2

Any appeal against this report shall be made within thirty (30) days from the date of issuance to The Ontario Municipal Board, 180 Dundas Street West, TORONTO, Ontario. M5G 1Z8.

Yours very truly,

T. A. Wilkes

Regional Assessment Commissioner

TAW:ss

Attach.

# REGIONAL MUNICIPALITY OF NIAGARA

# FINAL 1984 APPORTIONMENT

		,1	
Municipality		Total Local Weighted Assessment	Apportionment Percentage %
		(Col.13)	(Col. 14)
NIAGARA FALLS,	c.	\$1,331,793,530	22.502
PORT COLBORNE,	C.	286,594,787	4.842
ST.CATHARINES,	С.	1,806,004,990	30.515
WELLAND,	C.	689,987,840	11.658
THOROLD,	C.	304,211,500	5.140
FORT ERIE,	т.	375,720,746	6.348
GRIMSBY,	Т.	242,816,353	4.103
LINCOLN,	T.	221,478,161	3.742
NIAGARA-ON- THE -LAKE,	т.	289,781,844	4.896
PELHAM,	Т.	150,728,254	2.547
WAINFLEET,	TP.	79,416,932	1.342
WEST LINCOLN,	TP.	139,970,938	2.365
TOTALS:		\$5,918,505,875	100.000
	===	40121012021012	#SIMIFE

MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM

* †9†1	1984 COMIL ASSESSMENT TOTAL COL 5+6+7	100	100.945.594	22,929,931	96,904,746	57,559,617	25,284,795	22,396,122	8,603,033	6,907,519	7,336,161	3,069,207	1,584,632	3,808,196	357,329,603
UTDF: .4464 *	1984 COMEL LOCAL ASSESSMENT EQUIVALENT PORTION	7	4,664,208	1,007,636	8,093,931	3,566,687	820,010	2,860,427	826,568	654,159	776,700	579,637	328,860	341,721	24,520,544
	1984 COMMI. LOCAL & INDL. ASSESSMENT GRANT-IN- LEIU	ю	11,314,384	2,564,295	4,524,685	3,273,735	1,620,805	557,670	362,455	414,900	1,259,273	103,090	43,763	97,730	26,141,785
	1984 CORRE LOCAL & INDE ASSESSMENT TAXABLE	S	84,967,002	19,358,000	34,286,130	50,714,195	22,843,980	18,978,025	7,414,010	5,838,460	5,300,188	2,386,480	1,212,059	3,368,745	306,667,274
	LOCAL & INDL RESID. & FARM ASSESSMENT COL 3 X UTDF	. 4	50,346,151	13,467,607	86,224,160	29,309,852	10,003,739	19,384,025	12,036,357	9,836,230	9,007,535	9,275,437	4,991,040	6,493,665	260,375,796
	1984 RESID 1984 RESID 1984 RESID 1984 RESID 1985 SHORT ASSESSHENT 1994 SKANTS-IN- TOTAL 181U COL 1 + 2	m	112,782,596	30,189,370	193,154,460	65,658,270	22,409,810	43,422,995	26,963,165	22,034,565	20,178,169	20,778,308	11,180,646	14,546,740	583,279,114
	1984 RESID LOCAL DISC ASSESSHENT GRANTS-IN- LEIU	2	3,073,244	192,230	2,935,295	1,036,515	120,635	254,075	122,530	104,250	6/7,26	160	0 (		7,981,263
I IN NIAGARA R	1984 RESID LOCAL & FARM ASSESSHENT TAXABLE	1	109,709,352	29,977,140	190,219,185	64,5/1,/55	72,289,125	43,168,920	20,840,535	20,005,000	20,003,030	11 180 6/6	17, 576 270	14,040,140	575,297,851
1984 REGIONAL APPORTIONHENT IN NIAGARA R GENERAL LEVY	CODE MUNICIPALITY FARM LOCAL & FARM		18101 NIAGARA FALLS C	18102 CT CALBORNE C	1810/ UEITAND C	18105 THOROTO C	18.01 FORT FRIE T	18402 CRIMSBY T	18603 TINCOTN T	18404 NIAGARA-ON-THE-IAKE	18405 PETHAM T	18801 WAINETEET TD	18802 WEST LINCOLN TD	II MITOCATE TOTAL TOO	

\*1984 UTDR (UPPER TIER DISCOUNT FACTOR) AS PUBLISHED IN ONT. REG. 648/82, GAZETTED OCT. 16/82.

1984 GROSS LEVY: N/A

GENERAL LEVY

MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM

1984 REGIONAL APPORTIONMENT IN NIAGARA R

	*													
1984 DOLLAR APPORTIONENT RESPELTY (INFO ONLY)	14A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1984 PERCENTAGE APPORTHNT RESPBLIY	14	22.502	4.842	30.515	11.658	5.140	6.348	4.103	3.742	968.7	2.547	1.342	2.365	100.000
DISCOUNTED EQLZD ASSHAT USING AVG FACTOR COL(4+8)/12*100	13	1,331,793,530	286,594,787	1,806,004,990	689,987,840	304,211,500	375,720,746	242,816,353	221,478,161	289,781,844	150,728,254	79,416,932	139,970,938	5,918,505,875
AVERAGE 3 YEAR FACTOR	12	11.36	12.70	10.14	12.59	11.60	11.12	8.50	7.56	5.64	8.19	8.28	7.36	
EQUALTN FACTOR 07/09/83 GAZETTE	11	10.98	12.47	9.88	12.20	11.37	11.10	8.15	7.40	5.30	7.88	8.24	7.51	
EQUALTN FACTOR 07/10/82 GAZETTE	10	11.38	12.60	10.00	12.70	11.51	10.98	8.63	7.48	5.50	8.22	7.78	7.18	
EQUALTN FACTOR 07/11/81 GAZETTE	6	11.73	13.04	10.54	12.88	11.93	11.31	8.73	7.80	6.18	8.48	8.82	7.38	
HKT VALUE INTRO YEAR														
SEC86 INTRO FOR YEAR										80		81		
MUNICIPALITY		NIAGARA FALLS C	PORT COLBORNE C	ST. CATHARINES C	WELLAND C	THOROLD C	FORT ERIE T	GRIMSBY T	LINCOLN T	NIAGARA-ON-THE-LAKE	PELHAM T	WAINFLEET TP	WEST LINCOLN TP	
CODE		18101	17192	18103	18104	18105	18401	18402	18403	18404	18405	18801	18802	

\*NOTE: 1984 LEVY WILL BE DISTRIBUTED ON THE BASIS OF THE PERCENTAGES CONTAINED IN COL. 14.

MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM

Y: 35,698,265* Y: 37,957,928 Y: N/A	REDUCTION IN SHARING RESPBLIT COL.19-COL.21	22	1	- 3,927	-62,829	-95,671		-36,412		- 9,639			- 2,499	- 7,140	-218,177
1982 GROSS LEVY: 1983 GROSS LEVY: 1984 GROSS LEVY:	DOLLAR RESP (COL. 20 AND LOWER OF 82 or 83 LEVY)	21	7,815,064	1,732,437	10,956,155	4,257,375	1,676,391	2,302,538	1,428,288	1,345,468	1,709,947	887,459	481,570	851,404	35,444,096
	LOWER OF 82 and 83 PERCENTAGE RESPBLTY	20	21.892	4.853	30.691	11.926	7.696	6.450	4.001	3.769	4.790	2.486	1.349	2.385	99.288
AGARA R	DOLLAR RESP (COL 18 AND LOWER OF 82, 82 or 83 LEVY)	19	7,815,064	1,728,510	10,893,326	4,161,704	1,676,391	2,266,126	1,428,288	1,335,829	1,709,947	887,459	479.071	844,264	35,225,979
FIONMENT IN NI.	LOWER OF 83.83.84 PERCENTAGE RESPBLTY	18	21.892	4.842	30.515	11.658	969.4	6.348	4.001	3.742	4.790	2.486	1.342	2.365	98.877
1984 REGIONAL APPORTIONMENT IN NIAGARA R	1984 PERCENTAGE APPORITINT RESPBLTY	17	22.502	4.842	30.515	11.658	5.140	6.348	4.103	3.742	968.7	2.547	1.342	2.365	100.000
1984	1983 PERCENTAGE APPORTMIT RESPBITY	16	21.892	4.975	30.691	11.926	5.191	6.472	4.001	3.769	4.790	2.512	1.369	2.412	100.000
	1982 PERCENTAGE APPORTMYT RESPBLTT %	15	22.383	4.853	30.785	11.962	969.4	6.430	4.068	3.783	4.800	2.486	1.349	2.385	100.000
GENERAL LEVY	MUNICIPALITY		NIAGARA FALLS C	PORT COLBORNE C	ST. CATHARINES C	WELLAND C	THOROLD C	FORT ERIE T	GRIMSBY T	LINCOLN T	NIAGARA-ON-THE-LAKE	PELHAM T	WAINFLEET TP	WEST LINCOLN TP	
GE	CODE		18101	17192	18103	18104	18105	18401	18402	18403	18404	18405	18801	18802	

\*NOTE: IN THE CASE OF GENERAL PURPOSES; THE 1982 NET LEVY AFTER REGIONAL PER CAPITA GRANTS FINAL 1984 APPORTIONMENT GUARANTEE GRANT ENTITLEMENTS WILL BE BASED ON THE LOWER OF 1982, 1983 OR 1984 LEVIES. IF 1984 LEVY IS NOT AVAILABLE IT WILL BE ASSUMED TO BE HIGHER THAN THE 1982 OR 1983 LEVIES.

MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM

# 1984 REGIONAL APPORTIONMENT IN NIAGARA R

1984 PROV APPENT GUARANTEE GRANT ILESSER OF COL 27, 29	30	ı	ı	1	1	1	1	i	1	145,152	. 1	1	1	145,152
CHANGE IN RESPBLIT PLUS UPPER LIMIT COL'S 27+28	29	0	- 3,927	-62,829	-95,671	0	-36,412	0	- 9,639	145,152	0	- 2,499	- 7,140	11
DECREASES IN SHARE ALL LEVIES FROM PAGE 3	28	0	- 3,927	-62,829	-95,671	0	-36,412	0	- 9,639	0	0	- 2,499	- 7,140	
UPPER LIMIT COL 24 - COL 26	27	0	0	0	0	0	0	0	0	145,152	0	0	0	
LIMIT \$10 PER HOUSE- HOLD	26	264,040	75,860	466,930	168,190	55,540	113,640	55,640	48,790	45,130	39,460	26,720	29,710	
1984 HOUSE- HOLDS	25	26,404	7,686	46,693	16,819	5,554	11,364	5,564	4,879	4,513	3,946	2,672	2,971	
APPTENT GUARANTEE GRANT	24	0	0	0	0	0	0	0	0	190,282	0	6,873	0	197,155
NO OF REQN	23	**	1	1	1	F	1	M	H	H	1	1	<b>=</b>	
MUNICIPALITY		NIAGARA FALLS C	PORT COLBORNE C	ST. CATHARINES C	WELLAND C	THOROLD C	FORT ERIE T	GRIMSBY T	LINCOLN T	NIAGARA-ON-THE-LAKE	PELHAM T	WAINFLEET TP	WEST LINCOLN TP	
CODE		18101	17192	18103	18104	18105	18401	18402	18403	18404	18405	18801	18802	

MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM 1984 REGIONAL APPORTIONMENT IN NIAGARA R

EQUIVALENT ASSESSMENT

4,664,208 1,007,636 820,010 EQUIVALENT PORTION COL 3 + 6 3,566,687 826,568 654,159 776,700 328,860 8,093,931 2,860,427 579,637 24,520,544 341,721 TELEPHONE-TELEGRAPH 4,041,976 EQUIVALENT ASSESSMENT 968,151 6,496,421 2,330,214 769,438 1,652,397 785,196 648,718 527,656 579,637 328,860 19,470,285 341,721 1983 AVG MILL RT COMPIL OVERALL 282.506 254.308 257.479 255.739 264.310 226.002 284.632 300.476 274.981 249.004 211.458 268.857 TELEPHONE 1984 TOTAL 158,518 TELEGRAPH PAYMENTS 255,892 1,835,278 592,592 184,646 91,874 1,033,691 198,114 373,445 215,914 144,332 69,540 5,153,836 4 SQUIVALENT INSTITUT ASSESSMENT 622,232 1,597,510 50,572 39,485 1,236,473 ,208,030 41,372 5,441 249,144 5,050,259 m MUNIC 1983 AVG COMPIL MILL RT 48.819 164.620 164.506 140.278 128.529 123.732 139.492 143.691 141.284 111.904 98.598 124.277 2 1984 TOTAL 92,600 6,500 262,800 6,500 6,150 INSTITUT PAYMENTS 173,450 149,472 759 35,200 733,431 NIAGARA-ON-THE-LAKE ST. CATHARINES C C PORT COLBORNE C WEST LINCOLN TP NIAGARA FALLS MUNICIPALITY WAINFLEET TP FORT ERIE T WELLAND C THOROLD C GRIMSBY T LINCOLN T PELHAM T 18402 17192 18103 18104 18105 18403 18404 18405 18802 18401 18801 CODE

MMAH - MUNICIPAL MANAGEMENT POLICY BRANCH

MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM

18000 NIAGARA R

CALCILLATION OF 1983

RENCES SEE ANALY		AVG MUNIC COMMERCIAL MILL RATE (1)/(2)*1000	(3)	148.819	164.620	164.506	140.278	128.529	123.732	148.651	139.492	141.284	111.904	98.598	124.277
CODE MUNICIPALITY COMMERCIAL MILL RATES - FOR DATA REFERENCES  CODE MUNICIPALITY  BUSINESS  TAXES LEVIED (1200 COL 7+8) (1200 COL 7+8) (1200 COL 7+8) (13) (14) (15) (15) (16) (17) (17) (18) (18) (18) (19) (19) (19) (19) (19) (19) (19) (19	SEE ANALYSIS OF TAXATION	COMM. AND BUSINESS ASSESSEENT (101 COL 2+3)	(2)	86,668,586	19,849,810	33,587,150	51,810,715	22,805,995	19,188,205	7,404,985	5,859,750	5,202,599	2,348,600	1,272,550	3,332,805
CODE MUNICIPALITY  CODE MUNICIPALITY  18101 NIAGARA FALLS C 17192 PORT COLBORNE C 18103 ST. CATHARINES C 18104 WELLAND C 18105 THOROLD C 18401 FORT ERIE T 18402 GRIMSBY T 18402 GRIMSBY T 18404 NIAGARA-ON-THE-LAKE 18405 PELHAM T 18801 WAINFLEET TP 18801 WAINFLEET TP 18802 WEST LINCOLN TP	MILL RATES - FOR DATA REFERENCES	COPPI AND BUSINESS TAXES LEVIED (1200 COL 7+8)	(1)	12,749,141	3,287,678	13,750,614	7,239,872	2,931,227	2,374,198	1,100,757	817,391	735,042	262,817	125,471	414,190
CODE  CODE  18101 17192 18103 18104 18105 18402 18402 18404 18403 18404 18605	TION OF 1983 AVERAGE MUNICIPAL COMMERCIAL	MUNICIPALITY		NIAGARA FALLS C	PORT COLBORNE C	ST. CATHARINES C	WELLAND C	THOROLD C	FORT ERIE T	GRIMSBY T	LINCOLN T	NIAGARA-ON-THE-LAKE	PELHAM T	WAINFLEET TP	WEST LINCOLN TP
	CALCULA	CODE		18101	17192	18103	18104	18105	18401	18402	18403	18404	18405	18801	18802

# MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM

18000 NIAGARA R

CALCULATION OF 1983 AVERAGE OVERALL COMMERCIAL MILL RATES - FOR DATA REFERENCES SEE 1982 ANLYSIS OF TAXATION

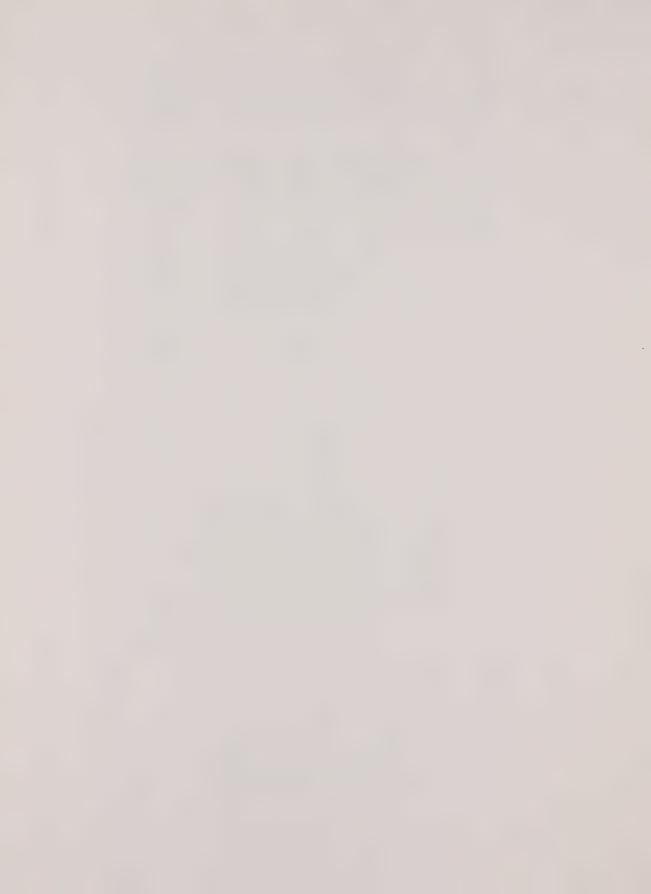
AVG OVERALL COMMERCIAL MILL RATE (3)+(6)+(9)	(10)	255.739	264.310	282,506	254.308	257.479	226.002	274.981	284.632	300.476	249.004	211.458	268.857
AVG SECNDRY COMMERCIAL MILL RATE (7)/(8)*1000	(6)	50.170	46.980	54.310	53.740	60.760	48.150	58.150	66.810	73.235	64.630	53,300	009.99
SECNDRY CONNEL & BUSINESS ASSESSMENT (501 COL 2+3)	(8)	85,668,586	19,849,810	83,587,150	51,610,715	22,805,995	19,188,205	7,404,985	5,859,750	5,202,599	2,348,600	1,272,550	3,332,805
SECNDRY COMPL. & BUSINESS TAXES LEVIED (501 COL. 7+8)	(7)	4,297,993	932,544	4,539,618	2,773,560	1,385,692	923,912	430,600	391,490	381,013	151,790	67,827	221,965
AVG PUBLIC COMMERCIAL MILL RATE (4)/(5)*1000	(9)	56.750	52.710	63.690	60.290	68.190	54.120	68.180	78.330	85.957	72.470	59.560	77.980
PUBLIC COMMI. & BUSINESS ASSESSMENT (301 COL 2+3)	(5)	68,094,271	18,630,430	78,078,750	48,035,370	21,644,835	16,925,805	7,027,900	5,744,807	4,740,042	2,001,860	1,084,536	3,265,440
PUBLIC COMMESS  & BUSINESS  TAKES LEVIED  (301 COL 7+8)	(4)	3,864,349	982,009	4,972,836	2,896,052	1,475,961	916,024	479,162	449,991	407,440	145,074	64,595	254,639
MUNICIPALITY		NIAGARA FALLS C	PORT COLBORNE C	ST. CATHARINES C	WELLAND C	THOROLD C	FORT ERIE T	GRIMSBY T	LINCOLN T	NIAGARA-ON-THE-LAKE	PELHAM T	WAINFLEET TP	WEST LINCOLN TP
CODE		18101	17192	18103	18104	18105	18401	18402	18403	18404	18405	18801	18802

HMAH - MUNICIPAL MANAGEMENT POLICY BRANCH

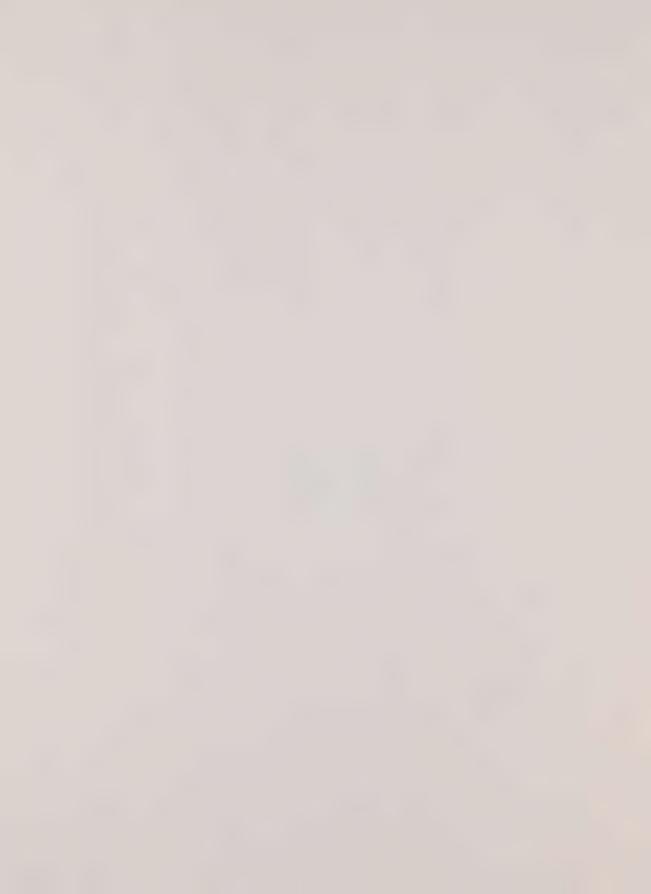
MUNICIPAL ANALYSIS AND RETRIEVAL SYSTEM

1984 REGINAL APPORTIONMENTS - 1984 SECTION 160 PAYHENT (FORMERLY SECTION 304) - FOR NIAGARA R

TYPE I-INST P-PARK	DESCRIPTION ST RK		UNITS	1984	SEC 160 PAYMENT	MUNICIPAL SUBTOTAL
	THE GREATER	THE GREATER NIAGARA GENERAL HOSPITAL	402		20,100	
	NIAGARA COLLEGE	:CE	130		6,500	
	INTERNATIONAL BRIDGES	BRIDGES	7		000,99	92,600
	PORT COLBORN	PORT COLBORNE GENERAL HOSPITAL	130		6,500	6,500
	HOTEL DIEU HOSPITAL	OSPITAL	284		14,200	
	SHAVER HOSPITAL	'AT	119		5,950	
	ST. CATHARIN	ST. CATHARINES GENERAL HOSPITAL	545		27,250	
	BROCK UNIVERSITY	ITY	3,945		197,250	
	NIAGARA COLLEGE	GE	363		18,150	262,800
	WELLAND COUN	WELLAND COUNTY GENERAL HOSPITAL	417		20,850	
	NIAGARA COLLEGE	GE	3,052		152,600	173.450
	NIAGARA R.D.C.	.:	130		6,500	6.500
	DOUGLAS MEMO	DOUGLAS MEMORIAL HOSPITAL	93		4,650	
	INTERNATIONAL BRIDGES	BRIDGES	1		144,822	149.472
	WEST LINCOLN	WEST LINCOLN MEMORIAL HOSPITAL	123		6,150	6,150
	HORTICULTURA	HORTICULTURAL RESEARCH INST. OF ONT. VINELAND STN.	93		759	759
	THE NIAGARA	THE NIAGARA GENERAL HOSPITAL	777		2,200	
	INTERNATIONAL BRIDGES	BRIDGES	1		33,000	35,200



APPENDIX D
BIBLIOGRAPHY



## APPENDIX D: BIBLIOGRAPHY

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- 2. Site Assessment, Phase 4B: Facility Characteristics, Monenco Limited, prepared for Ontario Waste Management Corporation, Toronto, Ontario, 1987.
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The Regional Municipality of Niagara

The City of Thorold

The Town of Grimsby

The Town of Lincoln

The Town of Niagara-on-the-Lake

The Town of Pelham

The Township of Wainfleet

- 1985 Current and Capital Budget 4. for the following municipalities: The Township of West Lincoln The Regional Municipality of Niagara
- 5. 1984 Financial and Economic Survey Regional Municipality of Niagara
- 1986 Municipal Directory 6. Ministry of Municipal Affairs
- 1984 Upper Tier Apportionment Schedules, Ministry of Municipal Affairs
- 1984 Equalization Factors by Property Class 8. Ministry of Revenue
- 9. 1984 Enrollment and Financial Statistics Lincoln County Public School Board, and Lincoln County Roman Catholic School Board

## DISCUSSIONS AND INTERVIEWS HELD WITH THE FOLLOWING:

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   Municipal roads Office
   Ministry of Transportation and Communications
- 2. Mr. C.E. Winter
  Director, Field Operations Branch
  Property Assessment Program
  Ministry of Revenue
- 3. Mr. P. Smith
  Manager, Quality Control Section
  Property Assessment Program
  Ministry of Revenue
- 4. Mr. Wm. Wu
  Senior Manager, Assessment Policy and Legislation
  Assessment Policies and Priorities Branch
  Ministry of Revenue
- 5. Mr. R. Kennedy
  Senior Planner, Office of Local Planning Policy
  Research and Special Projects Branch
  Ministry of Municipal Affairs
- 6. Mr. R. Skinner
  Senior Policy Advisor
  Finance Policy and Analysis
  Municipal Finance Branch
  Ministry of Municipal Affairs
- 7. Mr. K. Dudley
  Economist
  Finance Policy and Analysis
  Municipal Finance Branch
  Ministry of Municipal Affairs
- 8. Mr. D.B. Gittings
  Staff Superintendent
  Niagara Regional Police Force
- 9. Mr. F. Walsh
  Regional Administrator
  Regional Municipality of Niagara

- 10. Mr. A. Veale
  Director of Planning
  Regional Municipality of Niagara
- 11. Mr. M. Trojan Treasurer Regional Municipality of Niagara
- 12. Mr. M. Fraser
  Director of Social Services
  Regional Municipality of Niagara
- 13. Mr. C. Eidt
  Director of Works
  Regional Municipality of Niagara
- 14. Mr. J. Cousens
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  Emergency Measures Office
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- 17. Mr. S. Owen
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- 20. Mr. R. Menns
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